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NATIONAL CLIMATIC CENTER ASHEVILLE NC

F/G 4/2

WIND - CEILING - VISIBILITY DATA AT SELECTED AIRPORTS. VOLUME 1--ETC(U)

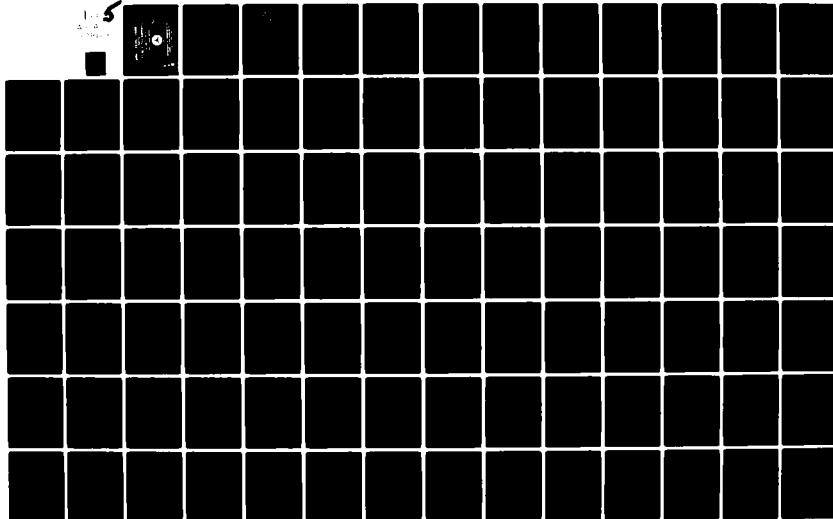
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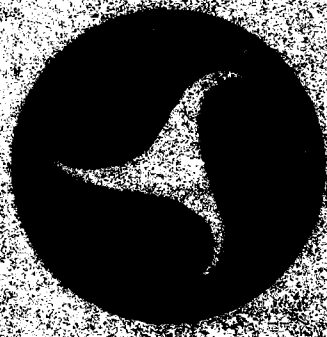


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LEVEL
WIND - CEILING - VISIBILITY
DATA
AT SELECTED AIRPORTS

VOLUME IV PART B
GREAT LAKES REGION



NOV 1961

DEPARTMENT OF TRANSPORTATION
OFFICE OF AIRPORTS
COMMUNICATIONS SECTION
COMMUNICATIONS SECTION
COMMUNICATIONS SECTION

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STANDARD
TERMINAL
DEPARTURES

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16. Abstract This report provides summary tables and graphic wind roses depicting wind direction and speed under specific ceiling - visibility conditions at 283 airports. This data will be used in the application of FAA's establishment criteria for precision and non-precision approach and landing aids.		
17. Key Words Ceiling, visibility, climatology	18. Distribution Statement Document is available to the public through the National Technical Information Service, Springfield, Va. 22151	
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Interagency Agreement DOT-FA79WAI-057

WIND-CEILING-VISIBILITY
DATA
AT SELECTED AIRPORTS

March 1981

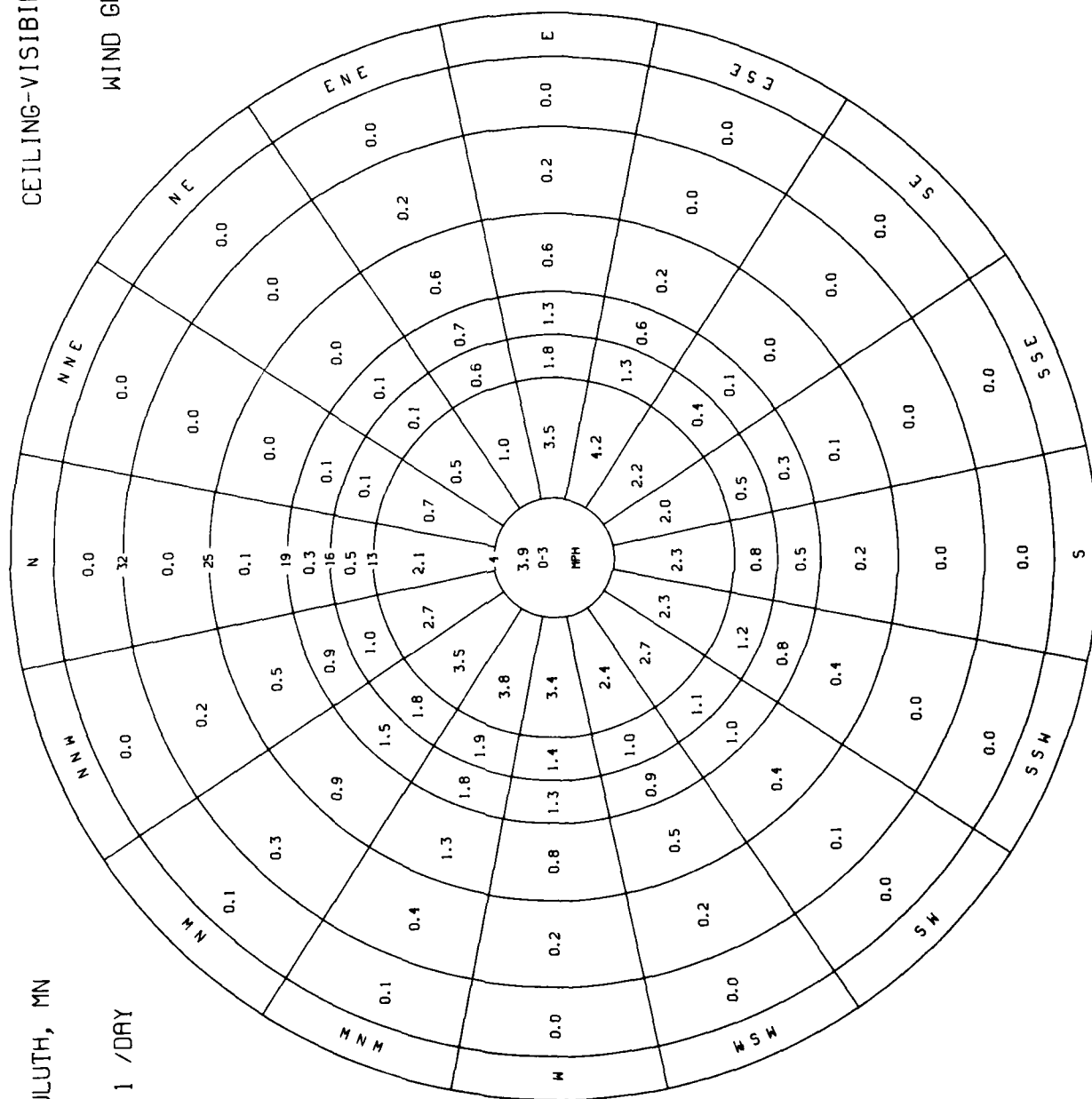
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DLH DULUTH, MN

CLASS 1 / DAY



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CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DLH DULUTH, MN

PERIOD: 1948-1978

CLASS 1 / DAY

STATION NUMBER: 14913

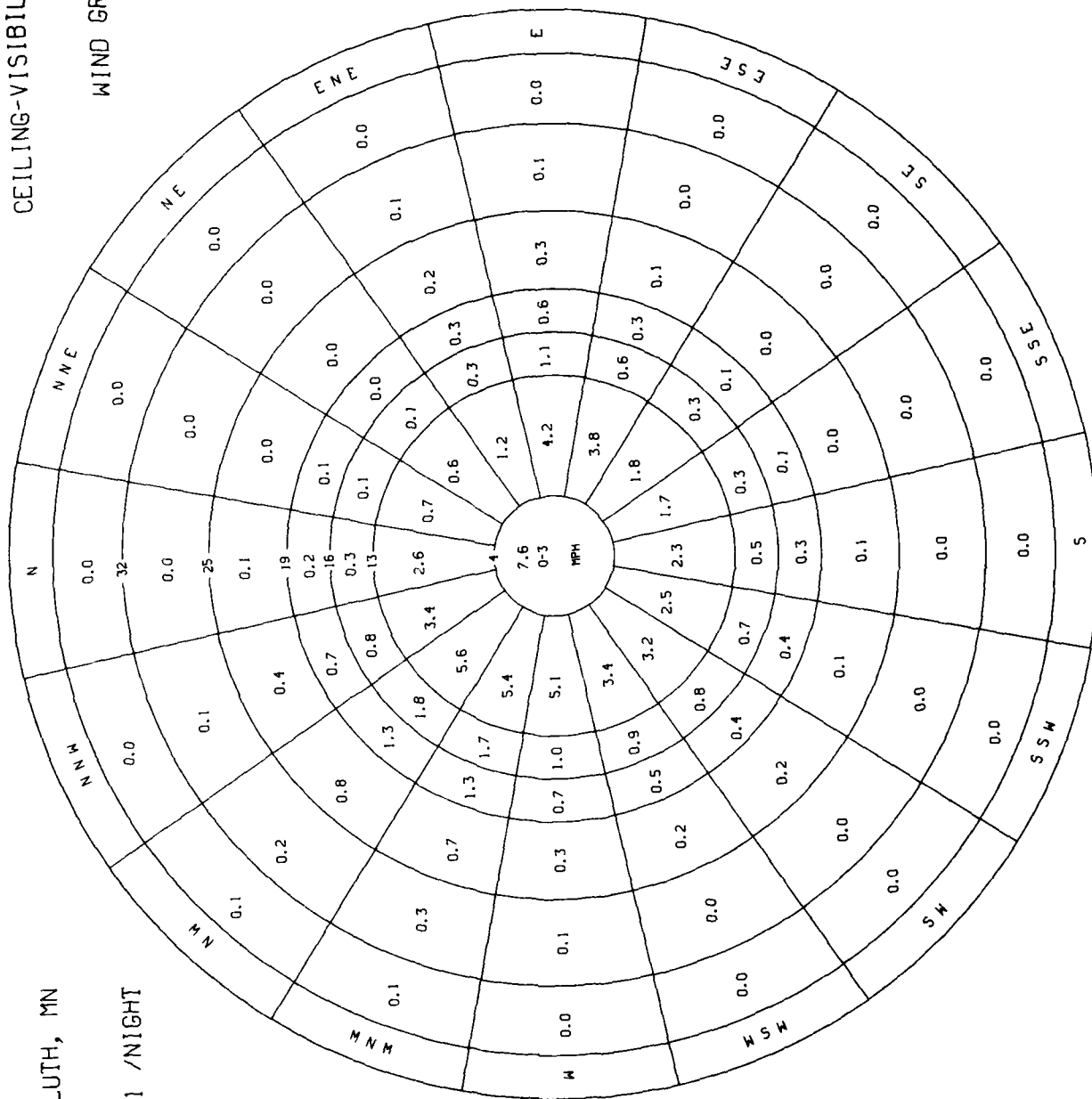
NO. OBS.: 39202

Accession For	WIS GRAT	Unannounced	Justification	By	Distribution/	Availability Codes	Dist
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O I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.2	.3	2.1	2.7	.5	.6	.3	.4	.1	.1	.0	.0	.0	.0	3.3	4.1	10.3
NNE	.1	.1	.7	.8	.1	.2	.1	.1	.0	.0	.0	.0	.0	.0	1.0	1.3	9.7
NE	.1	.1	.5	.6	.1	.1	.1	.1	.0	.1	.0	.0	.0	.0	.8	1.0	10.2
ENE	.1	.1	1.0	1.3	.6	.7	.7	.9	.6	.7	.2	.3	.0	.1	3.2	4.0	15.3
E	.2	.2	3.5	4.3	1.8	2.3	1.3	1.6	.6	.8	.2	.2	.0	.1	7.6	9.5	13.1
ESE	.2	.2	4.2	5.3	1.3	1.7	.6	.7	.2	.2	.0	.0	.0	.0	6.5	8.1	10.8
SE	.1	.2	2.2	2.7	.4	.6	.1	.2	.0	.0	.0	.0	.0	.0	2.9	3.7	9.6
SSE	.1	.1	2.0	2.5	.5	.6	.3	.4	.1	.1	.0	.0	.0	.0	3.0	3.8	10.5
S	.1	.2	2.3	2.9	.8	1.0	.5	.6	.2	.2	.0	.0	.0	.0	4.0	5.0	11.4
SSW	.1	.1	2.3	2.8	1.2	1.4	.8	1.0	.4	.5	.0	.0	.0	.0	4.7	5.9	12.6
SW	.1	.2	2.7	3.3	1.1	1.4	1.0	1.2	.4	.5	.1	.1	.0	.0	5.4	6.7	12.5
WSW	.1	.1	2.4	3.0	1.0	1.3	.9	1.1	.5	.7	.2	.2	.0	.0	5.2	6.5	13.3
W	.2	.2	3.4	4.3	1.4	1.8	1.3	1.7	.8	.9	.2	.3	.0	.0	7.4	9.2	13.1
WNW	.2	.2	3.8	4.8	1.9	2.4	1.8	2.2	1.3	1.7	.4	.6	.1	.1	9.6	12.0	14.1
NW	.2	.3	3.5	4.4	1.8	2.3	1.5	1.9	.9	1.1	.3	.4	.1	.1	8.3	10.4	13.5
NNW	.2	.3	2.7	3.4	1.0	1.2	.9	1.1	.5	.6	.2	.2	.0	.0	5.5	6.8	12.6
CALM	1.6	2.0													1.6	2.0	
TOTAL	3.9	4.9	39.3	49.2	15.6	19.5	12.2	15.3	6.6	8.2	1.9	2.4	.4	.5	79.9	100	12.3

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: DLH DULUTH, MN

CLASS 1 / NIGHT

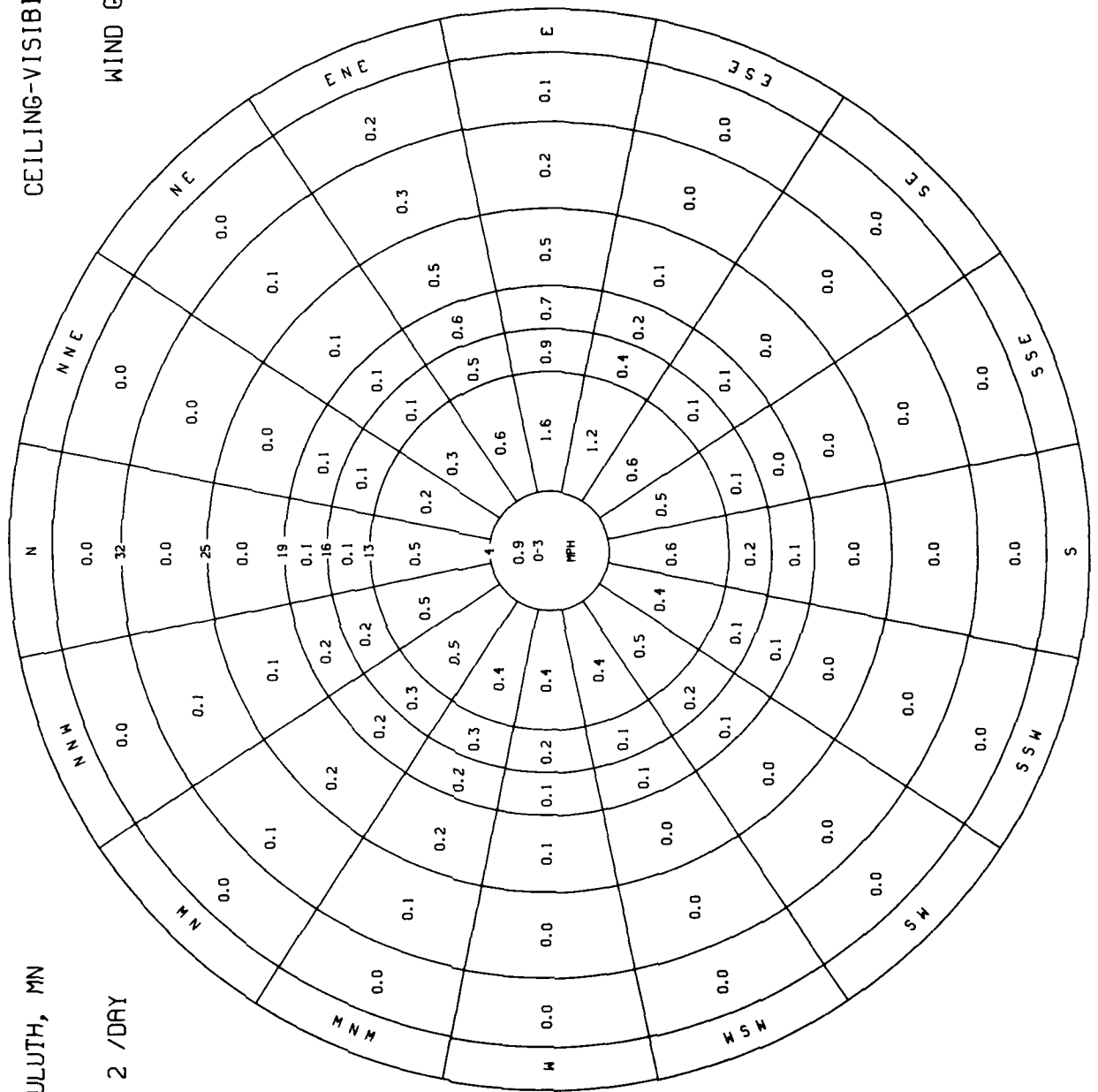
NO. OBS.: 32540

STATION NUMBER: 14913

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.3	.4	2.6	3.3	.3	.4	.2	.2	.1	.1	.0	.0	.0	.0	3.4	4.4	8.6
NNE	.2	.2	.7	1.0	.1	.2	.1	.1	.0	.0	.0	.0	.0	.0	1.1	1.5	8.7
NE	.2	.2	.6	.8	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.9	1.1	8.2
ENE	.2	.2	1.2	1.6	.3	.4	.3	.3	.2	.3	.1	.2	.0	.0	2.3	3.0	12.1
E	.4	.5	4.2	5.3	1.1	1.4	.6	.8	.3	.4	.1	.1	.0	.0	6.6	8.5	10.7
ESE	.3	.3	3.8	4.8	.6	.7	.3	.4	.1	.1	.0	.0	.0	.0	5.0	6.4	9.4
SE	.3	.4	1.8	2.3	.3	.3	.1	.1	.0	.0	.0	.0	.0	.0	2.5	3.1	8.4
SSE	.2	.2	1.7	2.2	.3	.4	.1	.1	.0	.0	.0	.0	.0	.0	2.3	3.0	9.0
S	.2	.3	2.3	3.0	.5	.7	.3	.3	.1	.1	.0	.0	.0	.0	3.5	4.4	10.0
SSW	.2	.2	2.5	3.2	.7	.9	.4	.5	.1	.2	.0	.0	.0	.0	3.9	4.9	10.7
SW	.2	.3	3.2	4.1	.8	1.1	.4	.5	.2	.2	.0	.0	.0	.0	4.8	6.1	10.5
WSW	.2	.2	3.4	4.4	.9	1.1	.5	.6	.2	.2	.0	.0	.0	.0	5.2	6.6	10.5
W	.3	.4	5.1	6.5	1.0	1.3	.7	.9	.3	.4	.1	.2	.0	.0	7.6	9.7	10.4
WNW	.3	.4	5.4	6.9	1.7	2.1	1.3	1.6	.7	1.0	.3	.3	.1	.1	9.7	12.4	12.0
NW	.5	.6	5.6	7.1	1.8	2.3	1.3	1.6	.8	1.1	.2	.3	.1	.1	10.3	13.1	11.8
NNW	.3	.4	3.4	4.3	.8	1.1	.7	.9	.4	.5	.1	.1	.0	.0	5.7	7.3	11.2
CALM	3.5	4.5													3.5	4.5	
TOTAL	7.6	9.6	47.6	60.7	11.2	14.3	7.0	9.0	3.7	4.7	1.1	1.4	.2	.3	78.4	100	10.2

CEILING-VISIBILITY
WIND GRAPH

DLH DULUTH, MN
CLASS 2 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DLH DULUTH, MN

PERIOD: 1948-1978

CLASS 2 / DAY

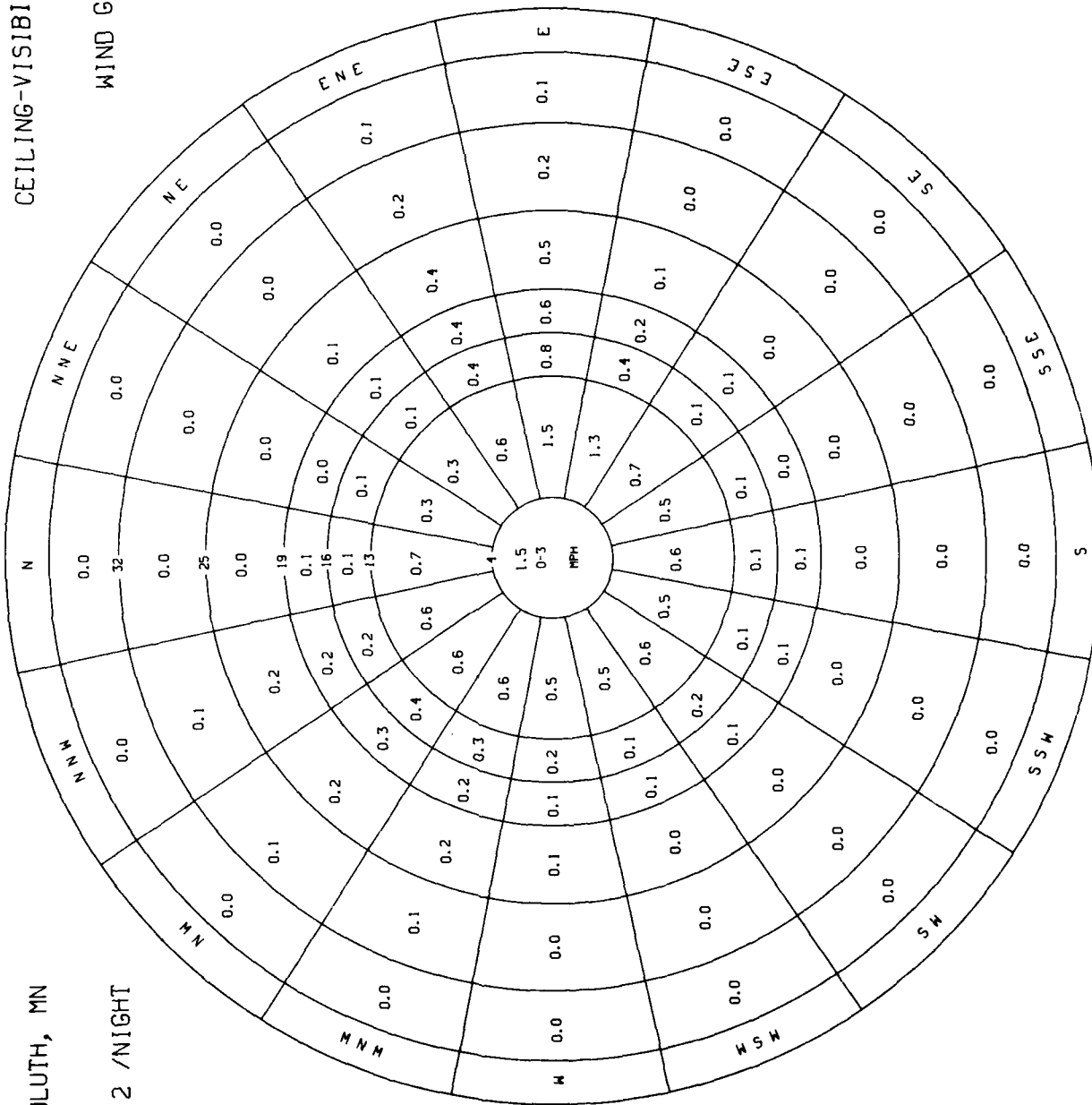
STATION NUMBER: 14913

NO. OBS.: 9861

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.2	.5	2.5	.1	.7	.1	.4	.0	.2	.0	.1	.0	.0	.8 4.1 10.9
NNE	.0	.1	.2	1.2	.1	.3	.1	.4	.0	.2	.0	.1	.0	.0	.5 2.2 11.8
NNE	.0	.1	.3	1.3	.1	.6	.1	.5	.1	.6	.1	.3	.0	.1	.7 3.5 15.2
ENE	.0	.2	.6	3.2	.5	2.6	.6	2.8	.5	2.3	.3	1.3	.2	.8	2.6 13.2 17.6
E	.1	.3	1.6	7.8	.9	4.3	.7	3.4	.5	2.7	.2	.9	.1	.4	4.0 19.8 14.5
ESE	.1	.3	1.2	6.1	.4	1.8	.2	1.2	.1	.4	.0	.1	.0	.0	2.0 9.9 11.2
SE	.0	.2	.6	3.1	.1	.6	.1	.3	.0	.1	.0	.0	.0	.0	.9 4.3 9.7
SSE	.0	.2	.5	2.4	.1	.4	.0	.2	.0	.1	.0	.0	.0	.0	.7 3.4 9.6
S	.0	.2	.6	2.9	.2	.8	.1	.3	.0	.1	.0	.0	.0	.0	.8 4.2 10.3
SSW	.0	.1	.4	2.1	.1	.7	.1	.4	.0	.1	.0	.0	.0	.0	.7 3.5 11.4
SW	.0	.2	.5	2.3	.2	.8	.1	.4	.0	.2	.0	.0	.0	.0	.8 4.0 11.2
WSW	.0	.1	.4	1.8	.1	.6	.1	.4	.0	.2	.0	.1	.0	.0	.6 3.1 12.0
W	.0	.1	.4	2.0	.2	.8	.1	.5	.1	.5	.0	.2	.0	.0	.8 4.1 13.1
WNW	.0	.2	.4	2.1	.3	1.5	.2	1.1	.2	.8	.1	.4	.0	.1	1.2 6.2 14.7
NW	.0	.2	.5	2.6	.3	1.5	.2	1.2	.2	1.0	.1	.4	.0	.1	1.4 7.1 14.5
NNW	.0	.1	.5	2.4	.2	1.0	.2	1.1	.1	.6	.1	.3	.0	.1	1.1 5.5 13.8
CALM	.4	1.8													.4 1.8
TOTAL	.9	4.5	9.2	45.8	3.9	19.2	3.0	14.7	2.0	10.0	.8	4.1	.3	1.7	20.1 100 13.2

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: DLH DULUTH, MN

CLASS 2 / NIGHT

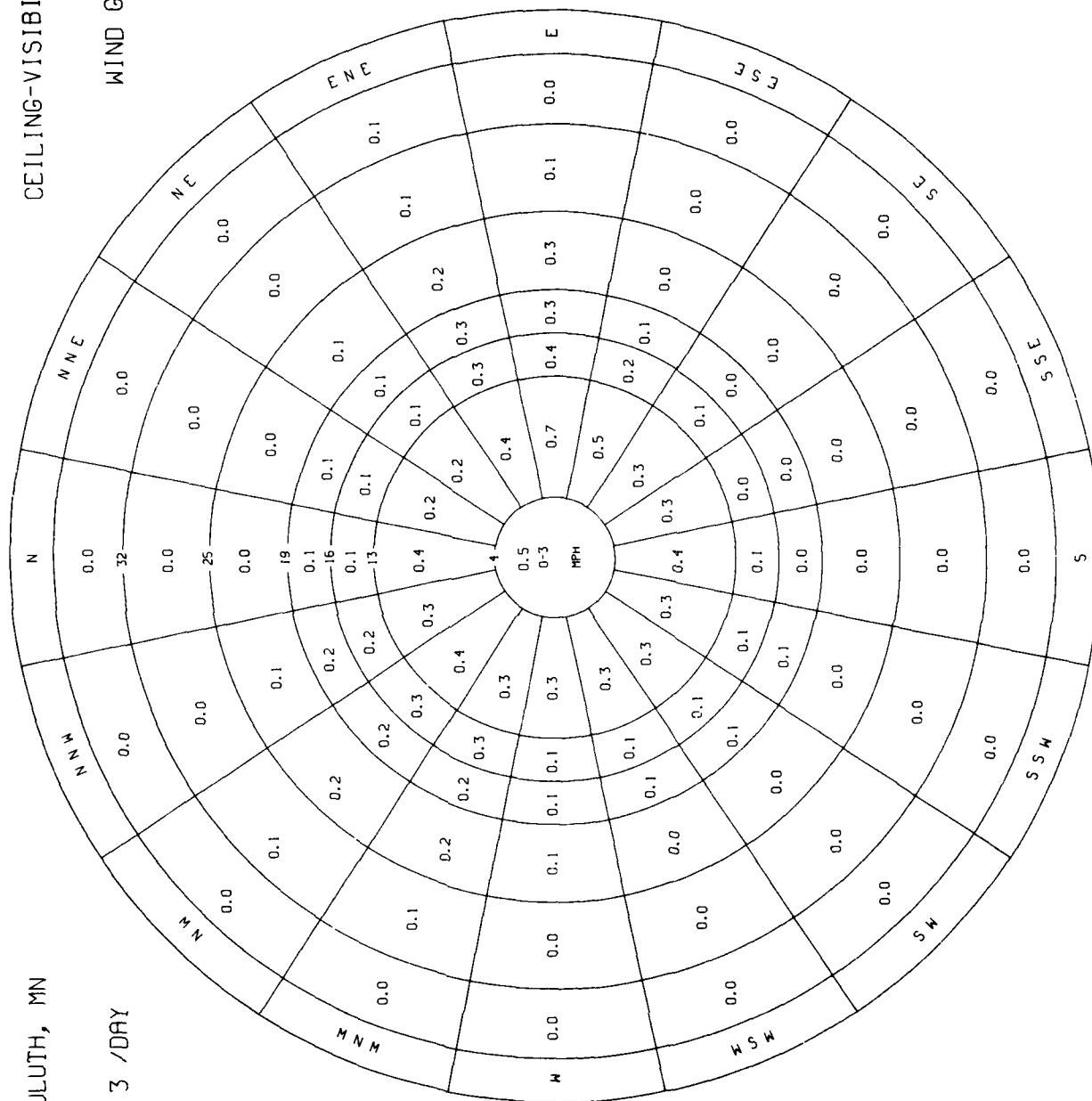
NO. OBS.: 8966

STATION NUMBER: 14913

D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.2	.7	3.1	.1	.7	.1	.5	.0	.2	.0	.1	.0	.0	1.0	4.8	10.5
NNE	.0	.1	.3	1.4	.1	.3	.0	.2	.0	.1	.0	.1	.0	.0	.5	2.3	10.8
NE	.1	.3	.3	1.5	.1	.4	.1	.4	.1	.3	.0	.2	.0	.1	.7	3.2	13.1
ENE	.0	.2	.6	2.9	.4	1.7	.4	1.9	.4	1.8	.2	1.0	.1	.6	2.2	10.1	17.0
E	.1	.4	1.5	7.1	.8	3.7	.6	2.9	.5	2.5	.2	1.0	.1	.3	3.9	17.9	14.5
ESE	.1	.5	1.3	6.2	.4	1.7	.2	1.1	.1	.4	.0	.1	.0	.0	2.1	9.9	10.9
SE	.1	.3	.7	3.2	.1	.6	.1	.3	.0	.1	.0	.0	.0	.0	1.0	4.5	9.5
SSE	.1	.2	.5	2.5	.1	.5	.0	.1	.0	.0	.0	.0	.0	.0	.7	3.4	9.0
S	.1	.2	.6	2.8	.1	.6	.1	.3	.0	.1	.0	.0	.0	.0	.9	4.1	10.2
SSW	.0	.1	.5	2.3	.1	.6	.1	.4	.0	.1	.0	.0	.0	.0	.8	3.6	10.9
SW	.0	.2	.6	2.7	.2	.9	.1	.6	.0	.1	.0	.0	.0	.0	1.0	4.6	11.1
WSW	.0	.1	.5	2.1	.1	.5	.1	.5	.0	.2	.0	.1	.0	.0	.8	3.6	11.6
W	.1	.3	.5	2.2	.2	.7	.1	.6	.1	.3	.0	.1	.0	.1	.9	4.3	12.1
WNW	.0	.2	.6	2.6	.3	1.3	.2	1.1	.2	1.1	.1	.3	.0	.1	1.5	6.8	14.2
NW	.0	.2	.6	2.9	.4	1.7	.3	1.5	.2	1.0	.1	.4	.0	.1	1.7	7.9	14.4
NNW	.0	.2	.6	2.6	.2	1.1	.2	1.1	.2	.7	.1	.3	.0	.1	1.3	5.9	13.8
CALM	.7	3.2													.7	3.2	
TOTAL	1.5	7.0	10.4	48.2	3.7	16.9	2.9	13.6	1.9	9.0	.8	3.7	.3	1.5	21.6	100	12.5

CEILING-VISIBILITY
WIND GRAPH

DLH DULUTH, MN
CLASS 3 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DLH DULUTH, MN

PERIOD: 1948-1978

CLASS 3 / DAY

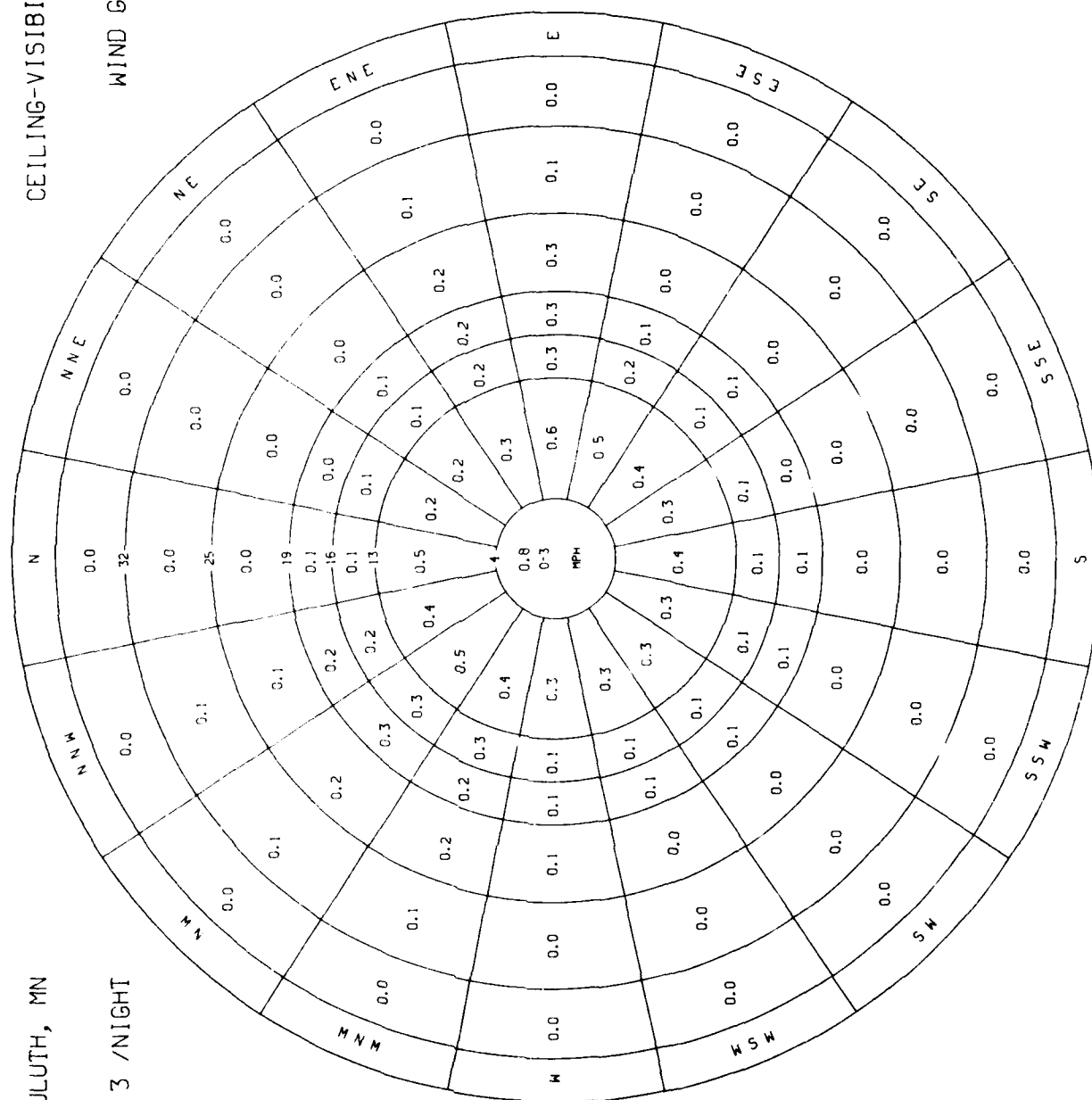
STATION NUMBER: 14913

NO. OBS.: 6281

O I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.2	.4	3.2	.1	1.0	.1	.4	.0	.2	.0	.1	.0	.0	.7 5.1 10.8
NNE	.0	.1	.2	1.4	.1	.4	.1	.5	.0	.1	.0	.0	.0	.0	.3 2.5 11.5
NE	.0	.0	.2	1.6	.1	.7	.1	.5	.1	.6	.0	.3	.0	.1	.5 3.7 14.6
ENE	.0	.2	.4	2.9	.3	2.3	.3	2.5	.2	1.9	.1	1.1	.1	.6	1.4 11.3 17.0
E	.0	.3	.7	5.4	.4	3.5	.3	2.5	.3	2.1	.1	.5	.0	.2	1.9 14.5 14.4
ESE	.0	.2	.5	4.2	.2	1.4	.1	.9	.0	.3	.0	.1	.0	.0	.9 7.1 11.4
SE	.0	.2	.3	2.5	.1	.6	.0	.2	.0	.0	.0	.0	.0	.0	.5 3.7 9.8
SSE	.0	.2	.3	2.2	.0	.4	.0	.2	.0	.1	.0	.0	.0	.0	.4 3.1 9.9
S	.0	.1	.4	2.8	.1	1.0	.0	.4	.0	.1	.0	.0	.0	.0	.6 4.5 10.9
SSW	.0	.1	.3	2.1	.1	1.0	.1	.6	.0	.2	.0	.0	.0	.0	.5 4.0 12.2
SW	.0	.2	.3	2.5	.1	1.0	.1	.6	.0	.3	.0	.0	.0	.0	.6 4.6 11.6
WSW	.0	.0	.3	2.0	.1	.9	.1	.6	.0	.3	.0	.1	.0	.0	.5 3.9 12.5
W	.0	.1	.3	2.4	.1	1.1	.1	.8	.1	.7	.0	.2	.0	.0	.7 5.4 13.5
WNW	.0	.1	.3	2.6	.3	2.2	.2	1.6	.2	1.2	.1	.5	.0	.1	1.1 8.5 15.0
NW	.0	.3	.4	3.2	.3	2.1	.2	1.7	.2	1.5	.1	.5	.0	.1	1.2 9.5 14.8
NNW	.0	.2	.3	2.7	.2	1.5	.2	1.5	.1	.8	.0	.3	.0	.0	.9 7.1 14.0
CALM	.2	1.6													.2 1.6
TOTAL	.5	4.1	5.6	43.8	2.7	21.2	2.0	15.5	1.3	10.3	.5	3.9	.2	1.2	12.8 100 13.3

DLH DULUTH, MN

CLASS 3 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DLH DULUTH, MN

PERIOD: 1948-1978

CLASS 3 / NIGHT

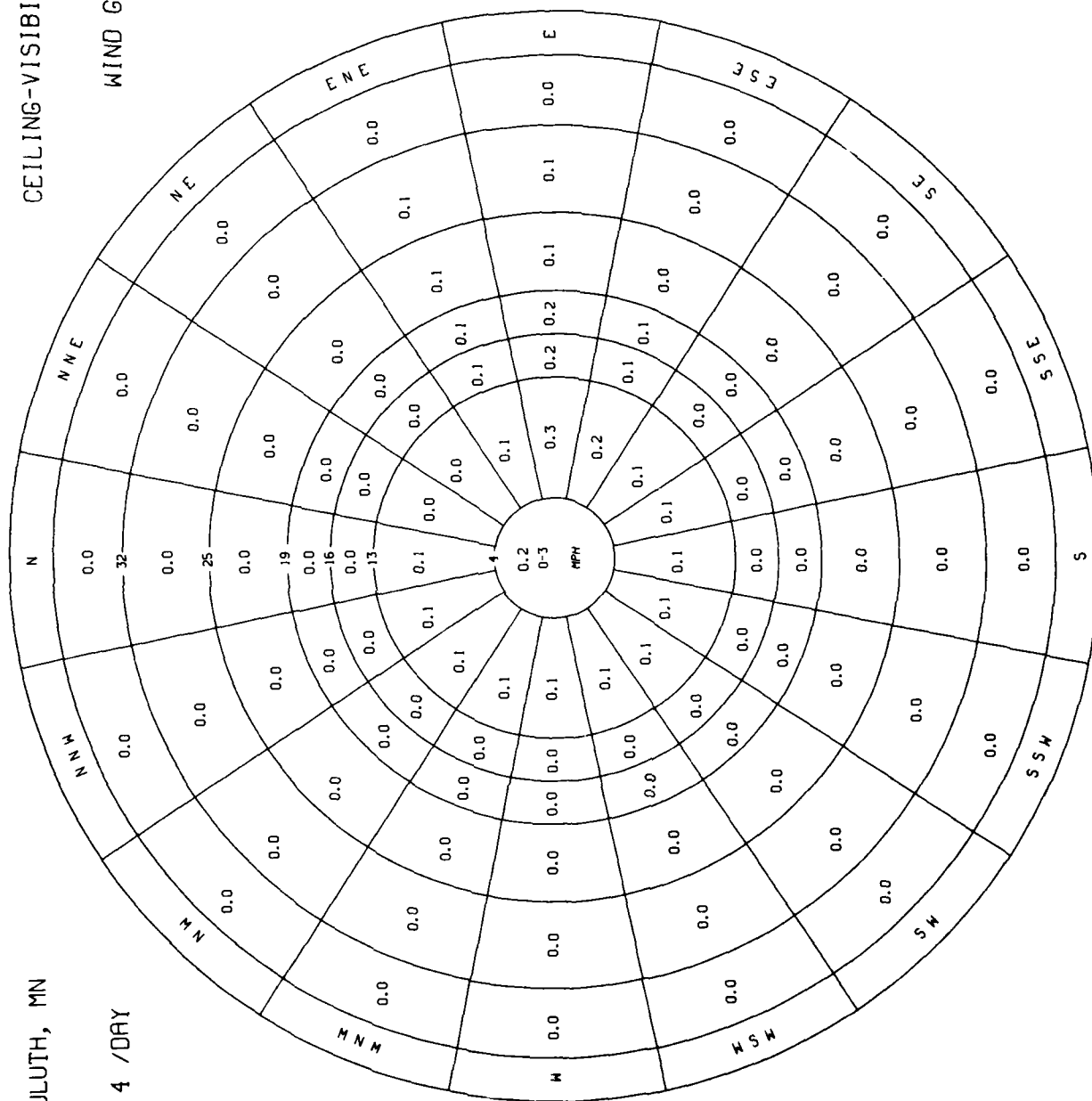
STATION NUMBER: 14913

NO. OBS.: 5451

D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.2	.5	4.0	.1	1.0	.1	.7	.0	.3	.0	.0	.0	.0	.8	6.2	10.8
NNE	.0	.1	.2	1.7	.1	.4	.0	.3	.0	.1	.0	.0	.0	.0	.3	2.6	10.2
NE	.0	.2	.2	1.6	.1	.4	.1	.4	.0	.2	.0	.2	.0	.1	.4	3.2	12.6
ENE	.0	.2	.3	2.3	.2	1.5	.2	1.6	.2	1.4	.1	.8	.0	.3	1.1	8.1	16.4
E	.0	.3	.6	4.4	.3	2.6	.3	2.2	.3	1.9	.1	.8	.0	.1	1.6	12.4	14.8
ESE	.0	.2	.5	4.1	.2	1.2	.1	.9	.0	.2	.0	.2	.0	.0	.9	6.8	11.6
SE	.0	.3	.4	2.9	.1	.7	.1	.4	.0	.1	.0	.0	.0	.0	.6	4.5	10.3
SSE	.0	.3	.3	2.3	.1	.6	.0	.2	.0	.0	.0	.0	.0	.0	.4	3.4	9.6
S	.0	.2	.4	2.8	.1	.8	.1	.4	.0	.2	.0	.0	.0	.0	.6	4.3	10.9
SSW	.0	.1	.3	2.1	.1	.7	.1	.5	.0	.2	.0	.0	.0	.0	.5	3.6	11.8
SW	.0	.2	.3	2.4	.1	.9	.1	.8	.0	.2	.0	.1	.0	.0	.6	4.5	11.8
WSW	.0	.1	.3	2.1	.1	.7	.1	.7	.0	.2	.0	.1	.0	.0	.5	4.0	12.3
W	.0	.3	.3	2.4	.1	1.1	.1	.9	.1	.5	.0	.2	.0	.1	.7	5.5	12.9
WNW	.0	.2	.4	3.2	.3	1.9	.2	1.8	.2	1.7	.1	.4	.0	.1	1.2	9.4	14.8
NW	.0	.2	.5	3.7	.3	2.5	.3	2.3	.2	1.6	.1	.6	.0	.2	1.5	11.0	14.9
NNW	.0	.2	.4	3.3	.2	1.5	.2	1.6	.1	1.0	.1	.4	.0	.1	1.1	8.1	13.9
CALM	.3	2.5													.3	2.5	
TOTAL	.8	5.9	5.9	45.2	2.4	18.6	2.1	15.7	1.3	9.7	.5	3.8	.1	1.1	13.1	100	12.8

CEILING-VISIBILITY WIND GRAPH

DLH DULUTH, MN
CLASS 4 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DLH DULUTH, MN

PERIOD: 1948-1978

CLASS 4 / DAY

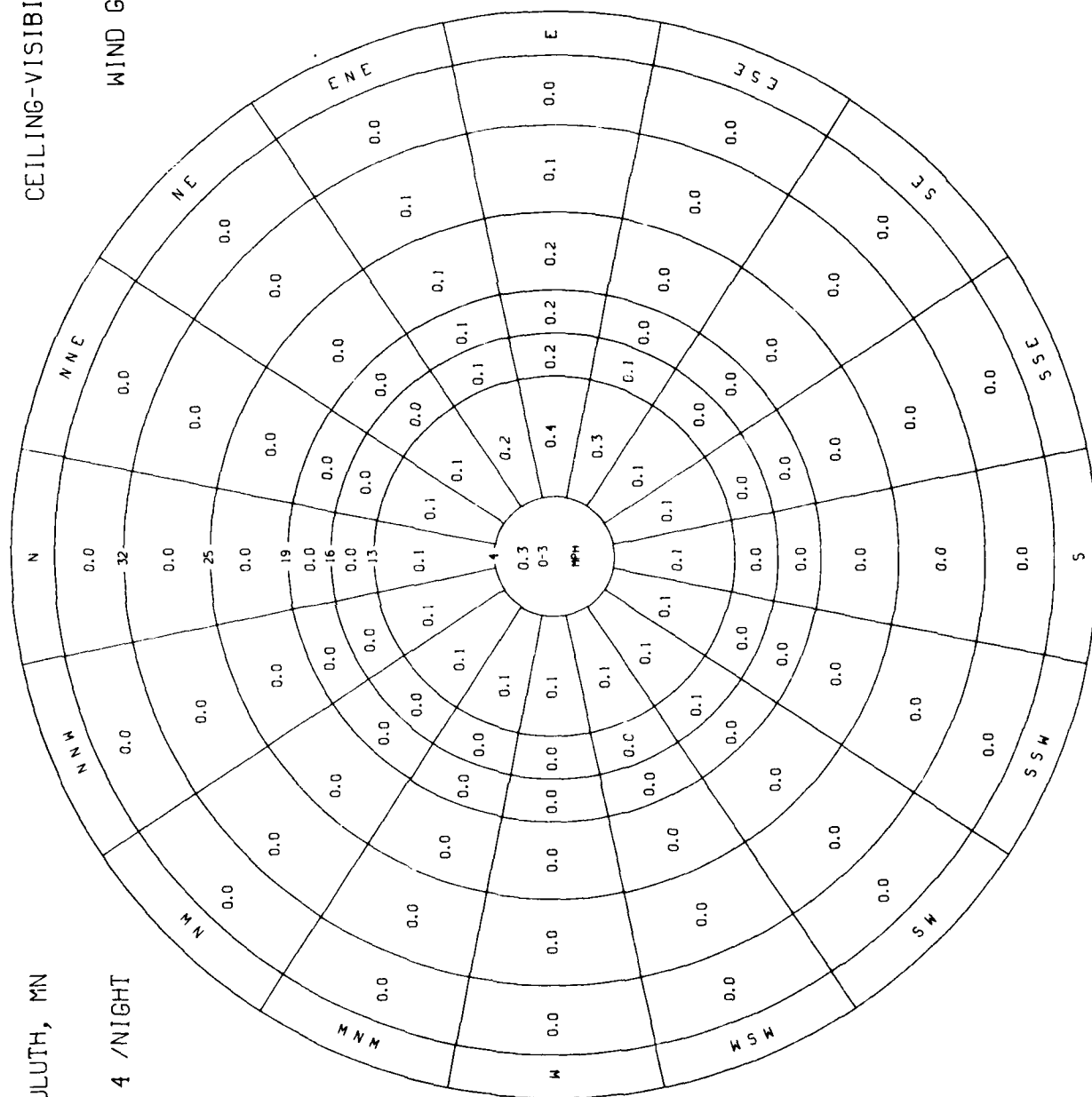
STATION NUMBER: 14913

NO. OBS.: 1880

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.0	.3	.1	2.0	.0	.5	.0	.4	.0	.3	.0	.0	.0	.1	.1	3.5	10.7
NNE	.0	.2	.0	1.2	.0	.2	.0	.3	.0	.4	.0	.2	.0	.0	.1	2.5	13.1
NNE	.0	.1	.0	1.0	.0	.6	.0	.7	.0	.7	.0	.1	.0	.1	.1	3.4	15.5
ENE	.0	.1	.1	3.4	.1	3.2	.1	3.2	.1	3.6	.1	1.9	.0	1.2	.6	16.6	18.5
E	.0	.2	.3	9.0	.2	4.9	.2	4.7	.1	3.9	.1	1.5	.0	.6	1.0	24.8	15.3
ESE	.0	.3	.2	6.5	.1	2.2	.1	1.8	.0	.6	.0	.2	.0	.0	.4	11.6	11.8
SE	.0	.3	.1	3.2	.0	.9	.0	.4	.0	.1	.0	.0	.0	.0	.2	4.8	10.1
SSE	.0	.2	.1	2.8	.0	.7	.0	.3	.0	.1	.0	.0	.0	.0	.2	4.1	10.3
S	.0	.2	.1	3.6	.0	.5	.0	.1	.0	.0	.0	.0	.0	.0	.2	4.4	9.1
SSW	.0	.2	.1	2.3	.0	.4	.0	.2	.0	.1	.0	.0	.0	.0	.1	3.2	9.7
SW	.0	.2	.1	2.2	.0	.6	.0	.3	.0	.1	.0	.0	.0	.1	.1	3.4	10.7
WSW	.0	.1	.1	1.8	.0	.4	.0	.1	.0	.1	.0	.1	.0	.0	.1	2.5	10.7
W	.0	.2	.1	1.5	.0	.4	.0	.1	.0	.2	.0	.1	.0	.1	.1	2.5	11.0
WNW	.0	.3	.1	1.8	.0	.3	.0	.4	.0	.3	.0	.1	.0	.1	.1	3.2	12.1
NW	.0	.2	.1	1.8	.0	.6	.0	.5	.0	.3	.0	.3	.0	.2	.1	3.8	14.3
NNW	.0	.0	.1	2.0	.0	.3	.0	.6	.0	.2	.0	.2	.0	.1	.1	3.4	13.0
CALM	.1	2.2													.1	2.2	
TOTAL	.2	5.1	1.8	46.1	.6	16.9	.5	14.3	.4	10.7	.2	4.6	.1	2.4	3.8	100	13.4

DLH DULUTH, MN

CLASS 4 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DLH DULUTH, MN

PERIOD: 1948-1978

CLASS 4 / NIGHT

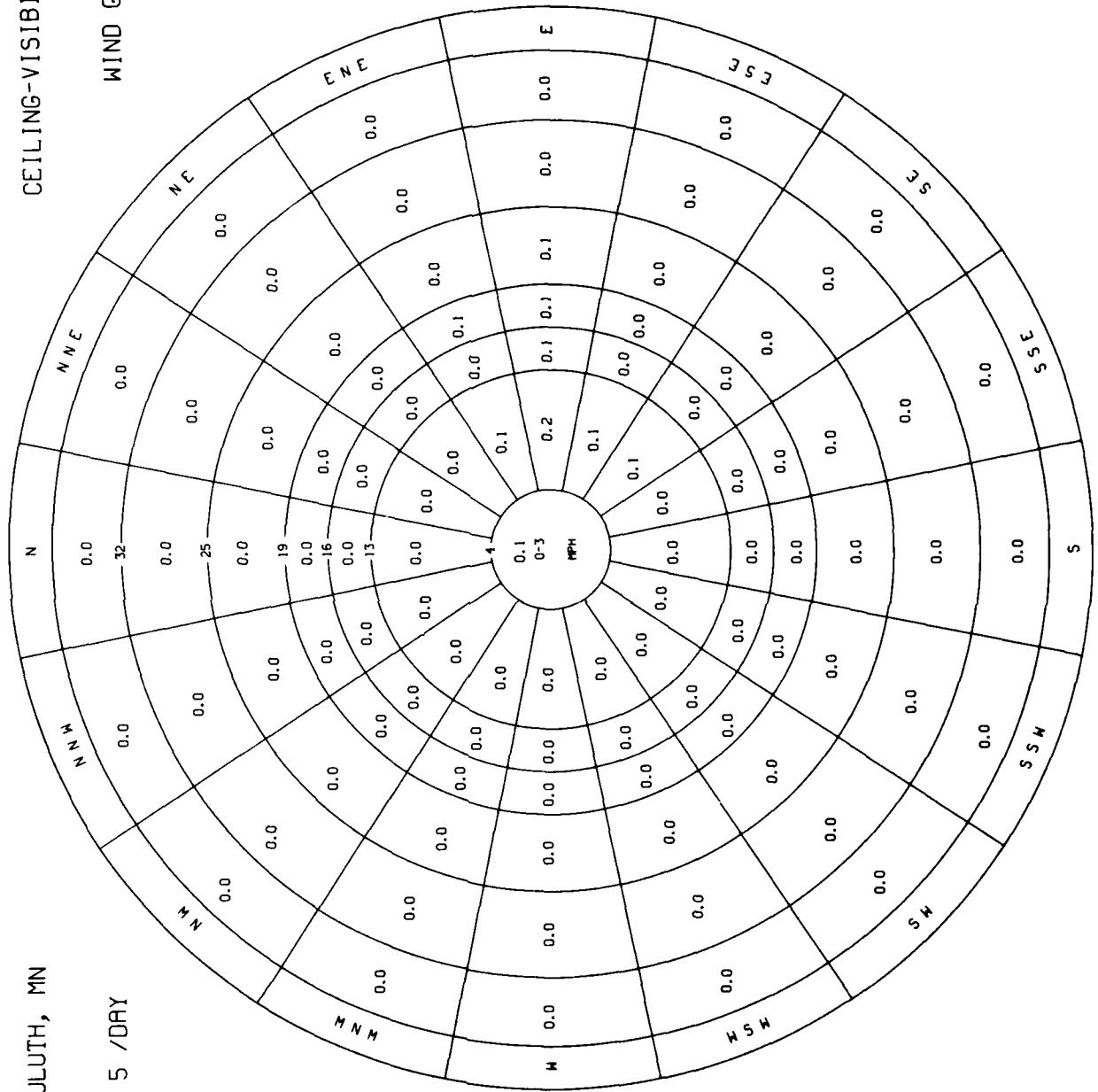
STATION NUMBER: 14913

NO. OBS.: 1834

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.3	.1	2.5	.0	.4	.0	.2	.0	.1	.0	.2	.0	.0	.2 3.7
NNE	.0	.1	.1	1.5	.0	.2	.0	.2	.0	.3	.0	.2	.0	.1	.1 2.6
NE	.0	.3	.1	1.7	.0	.3	.0	.5	.0	.4	.0	.3	.0	.1	.2 3.7
ENE	.0	.1	.2	3.7	.1	1.8	.1	3.1	.1	3.1	.1	1.2	.0	.8	.6 13.7
E	.0	.2	.4	9.3	.2	5.2	.2	3.9	.2	3.9	.1	1.3	.0	.3	1.1 24.0
ESE	.0	.3	.3	5.9	.1	2.0	.0	1.1	.0	.7	.0	.1	.0	.1	.4 10.1
SE	.0	.2	.1	2.7	.0	.4	.0	.3	.0	.1	.0	.0	.0	.0	.2 3.7
SSE	.0	.1	.1	2.7	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.1 3.3
S	.0	.1	.1	2.9	.0	.7	.0	.4	.0	.1	.0	.0	.0	.0	.2 4.1
SSW	.0	.2	.1	2.8	.0	.8	.0	.5	.0	.2	.0	.0	.0	.0	.2 4.5
SW	.0	.3	.1	3.4	.1	1.1	.0	.5	.0	.1	.0	.0	.0	.0	.2 5.5
WSW	.0	.1	.1	2.8	.0	.3	.0	.1	.0	.1	.0	.1	.0	.0	.1 3.4
W	.0	.2	.1	2.1	.0	.3	.0	.2	.0	.1	.0	.0	.0	.0	.1 2.9
WNW	.0	.2	.1	2.2	.0	.6	.0	.3	.0	.4	.0	.2	.0	.1	.2 3.8
NW	.0	.1	.1	2.3	.0	.7	.0	.4	.0	.3	.0	.3	.0	.0	.2 4.0
NNW	.0	.2	.1	2.1	.0	.7	.0	.4	.0	.3	.0	.2	.0	.1	.2 3.9
CALM	.1	3.1													.1 3.1
TOTAL	.3	5.9	2.2	50.7	.7	16.0	.5	12.0	.4	10.0	.2	3.9	.1	1.4	4.4 100

DLH DULUTH, MN

CLASS 5 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DLH DULUTH, MN

PERIOD: 1948-1978

CLASS 5 / DAY

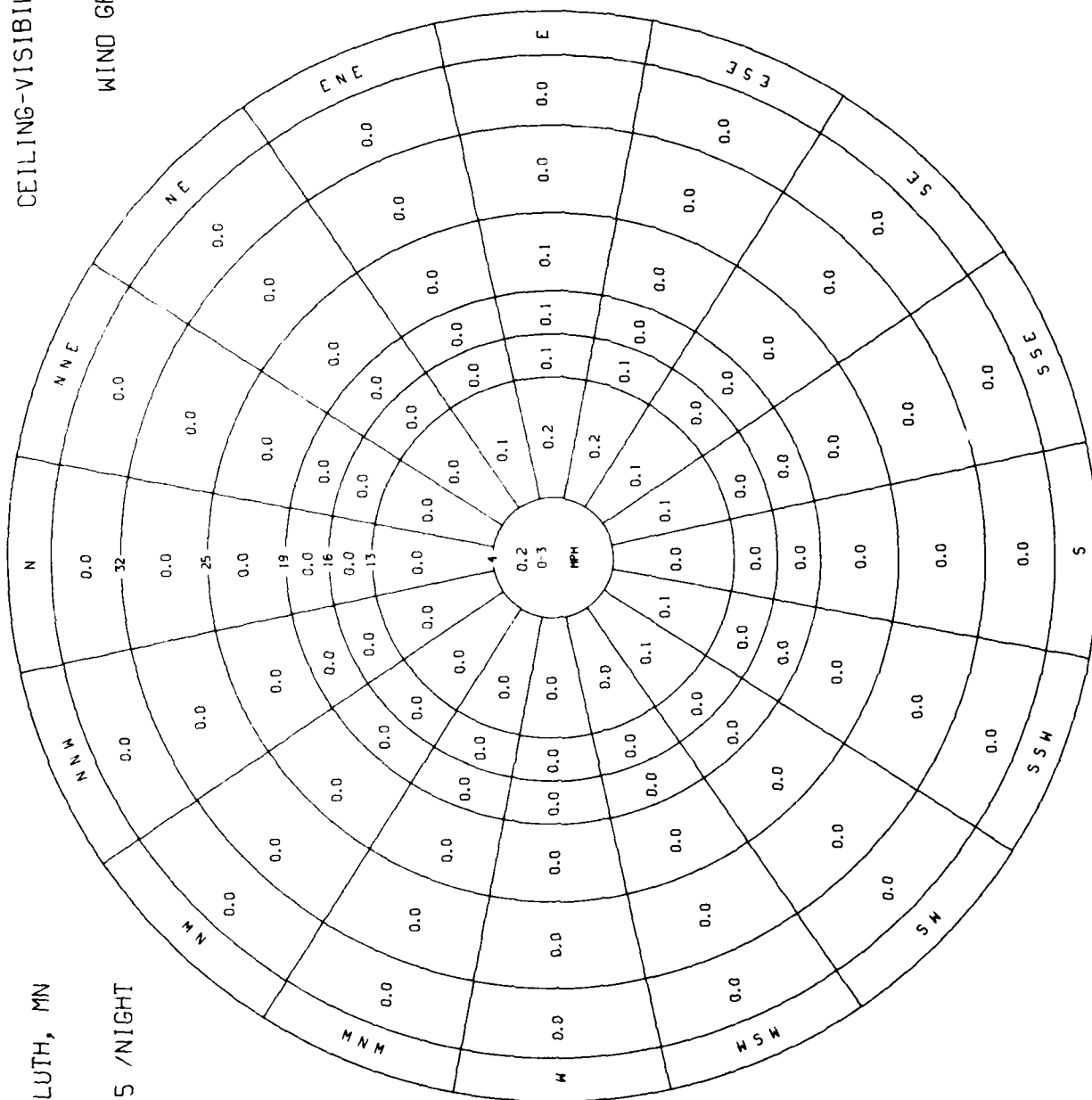
STATION NUMBER: 14913

NO. OBS.: 694

D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.1	.0	1.2	.0	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	1.9	12.3
NNE	.0	.0	.0	.7	.0	.3	.0	.1	.0	.0	.0	.1	.0	.0	.0	1.3	12.0
NE	.0	.1	.0	.9	.0	.1	.0	.6	.0	.7	.0	.7	.0	.3	.0	3.5	18.6
ENE	.0	.0	.1	4.2	.0	2.7	.1	4.5	.0	2.9	.0	1.6	.0	1.4	.2	17.3	18.6
E	.0	.6	.2	10.7	.1	6.5	.1	6.2	.1	4.9	.0	2.3	.0	1.2	.5	32.3	15.7
ESE	.0	.4	.1	9.1	.0	2.2	.0	1.3	.0	.6	.0	.1	.0	.0	.2	13.7	10.9
SE	.0	.0	.1	4.9	.0	.6	.0	.4	.0	.1	.0	.0	.0	.0	.1	6.1	9.8
SSE	.0	.3	.0	3.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	3.7	7.4
S	.0	.3	.0	2.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	2.9	8.9
SSW	.0	.0	.0	2.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	7.5
SW	.0	.0	.0	2.2	.0	.7	.0	.1	.0	.1	.0	.0	.0	.0	.0	3.2	10.3
WSW	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	1.4	10.0
W	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	.0	1.6	13.0
WNW	.0	.0	.0	.6	.0	.1	.0	.3	.0	.1	.0	.1	.0	.1	.0	1.4	16.9
NW	.0	.3	.0	1.6	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	.0	2.2	9.9
NNW	.0	.0	.0	1.6	.0	.1	.0	.1	.0	.6	.0	.1	.0	.3	.0	2.9	15.7
CALM	.0	2.4													.0	2.4	
TOTAL	.1	4.6	.7	47.8	.2	13.8	.2	14.0	.1	10.5	.1	5.6	.1	3.6	1.4	100	13.7

CEILING-VISIBILITY WIND GRAPH

DLH DULUTH, MN
CLASS 5 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: DLH DULUTH, MN

CLASS 5 / NIGHT

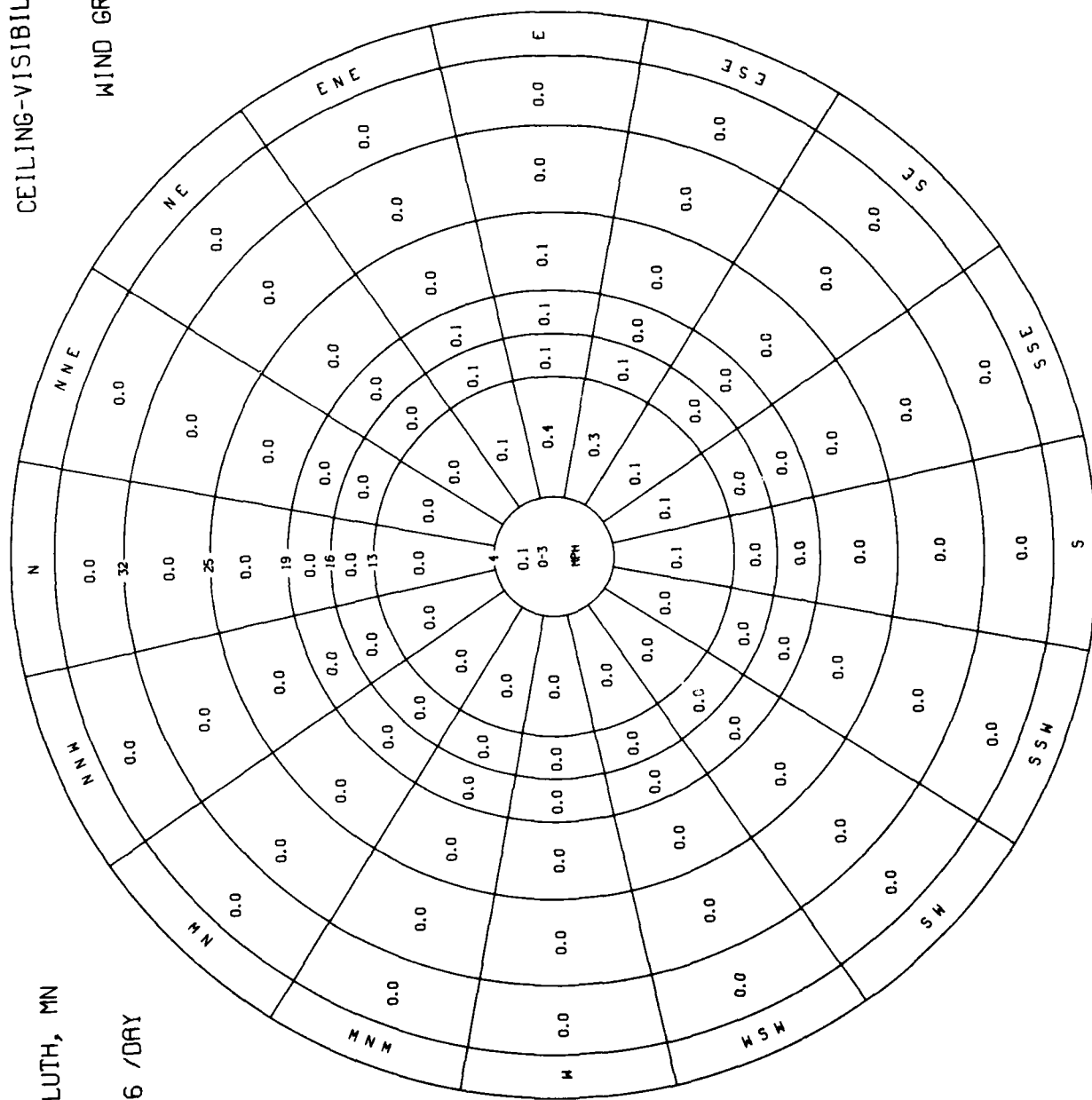
NO. OBS.: 780

STATION NUMBER: 14913

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.0	.1	.0	1.7	.0	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	2.1	8.8
NNE	.0	.0	.0	.5	.0	.3	.0	.0	.0	.0	.0	.1	.0	.0	.0	.9	11.9
NE	.0	.4	.0	1.2	.0	.3	.0	.4	.0	.4	.0	.1	.0	.0	.1	2.7	12.5
ENE	.0	.4	.1	4.6	.0	2.6	.0	2.1	.0	1.8	.0	.9	.0	.6	.2	12.9	15.4
E	.0	.8	.2	11.0	.1	5.5	.1	4.2	.1	2.7	.0	.8	.0	.6	.5	25.6	13.9
ESE	.0	1.2	.2	11.2	.1	2.8	.0	1.3	.0	.6	.0	.0	.0	.0	.3	17.1	10.2
SE	.0	.5	.1	4.6	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.1	5.5	7.3
SSE	.0	.1	.1	3.2	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.1	3.6	8.1
S	.0	.0	.0	2.4	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	8.5
SSW	.0	.3	.1	4.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.1	4.5	8.2
SW	.0	.1	.1	4.6	.0	.8	.0	.1	.0	.0	.0	.0	.0	.0	.1	5.6	9.3
WSW	.0	.3	.0	1.8	.0	.3	.0	.3	.0	.1	.0	.3	.0	.0	.1	2.9	11.1
W	.0	.3	.0	1.7	.0	.0	.0	.1	.0	.0	.0	.1	.0	.1	.0	2.3	10.5
WNW	.0	.3	.0	2.1	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	2.6	7.5
NW	.0	.4	.0	1.4	.0	.1	.0	.0	.0	.1	.0	.0	.0	.1	.0	2.2	10.2
NNW	.0	.3	.0	1.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.0	1.5	10.3
CALM	.1	5.4													.1	5.4	
TOTAL	.2	10.6	1.1	56.9	.3	13.5	.2	8.8	.1	6.0	.0	2.4	.0	1.7	1.9	100	10.9

WIND GRAPH

CLASS 6 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DLH DULUTH, MN

PERIOD: 1948-1978

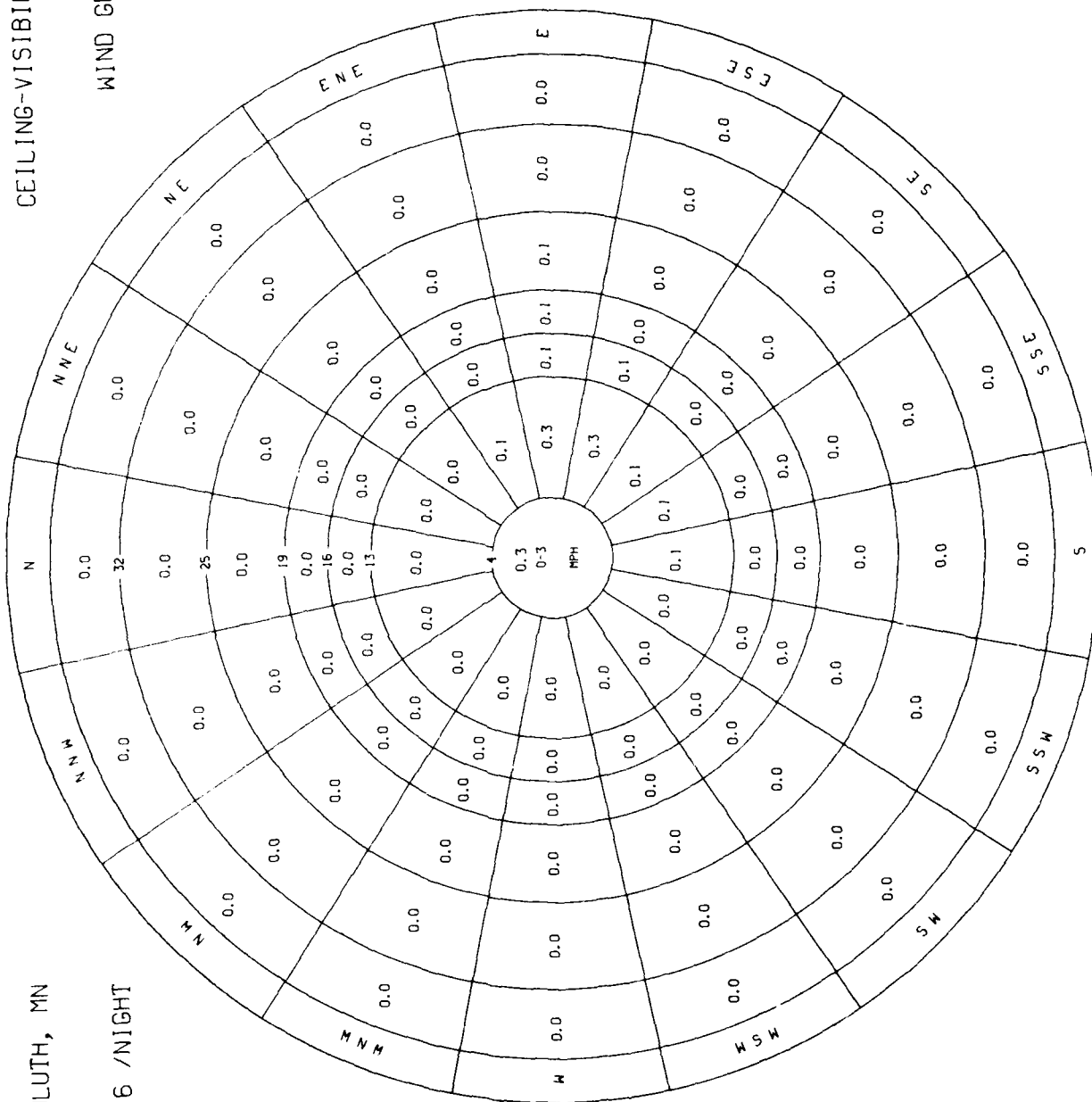
CLASS 6 / DAY

STATION NUMBER: 14913

NO. OBS.: 1006

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.3	.0	.3	.0	.1	.0	.1	.0	.0	.0	.0	.0	.2	.0 1.0
NNE	.0	.1	.0	.4	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0 .6
NE	.0	.0	.0	1.0	.0	.0	.0	.2	.0	1.0	.0	.1	.0	.2	.1 2.5
ENE	.0	.3	.1	4.0	.1	3.7	.1	2.8	.0	1.9	.0	1.7	.0	1.2	.3 15.5
E	.0	.9	.4	17.9	.1	6.4	.1	5.5	.1	2.8	.0	.9	.0	.8	.7 35.1
ESE	.0	.6	.3	15.2	.1	3.4	.0	2.0	.0	.3	.0	.1	.0	.0	.4 21.6
SE	.0	.2	.1	5.0	.0	.2	.0	.3	.0	.0	.0	.0	.0	.0	.1 5.7
SSE	.0	.2	.1	2.7	.0	.5	.0	.0	.0	.1	.0	.0	.0	.0	.1 3.5
S	.0	.2	.1	2.8	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.1 3.2
SSW	.0	.1	.0	1.4	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.6
SW	.0	.2	.0	1.4	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.7
WSW	.0	.1	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .8
W	.0	.1	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	.0 1.4
WNW	.0	.1	.0	.3	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.0 .6
NW	.0	.2	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.1
NNW	.0	.1	.0	1.6	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0 1.9
CALM	.0	2.4													.0 2.4
TOTAL	.1	6.1	1.2	56.6	.3	14.6	.2	11.0	.1	6.1	.1	3.1	.1	2.6	2.1 100

CEILING-VISIBILITY
WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DLH DULUTH, MN

PERIOD: 1948-1978

CLASS 6 / NIGHT

STATION NUMBER: 14913

NO. OBS.: 901

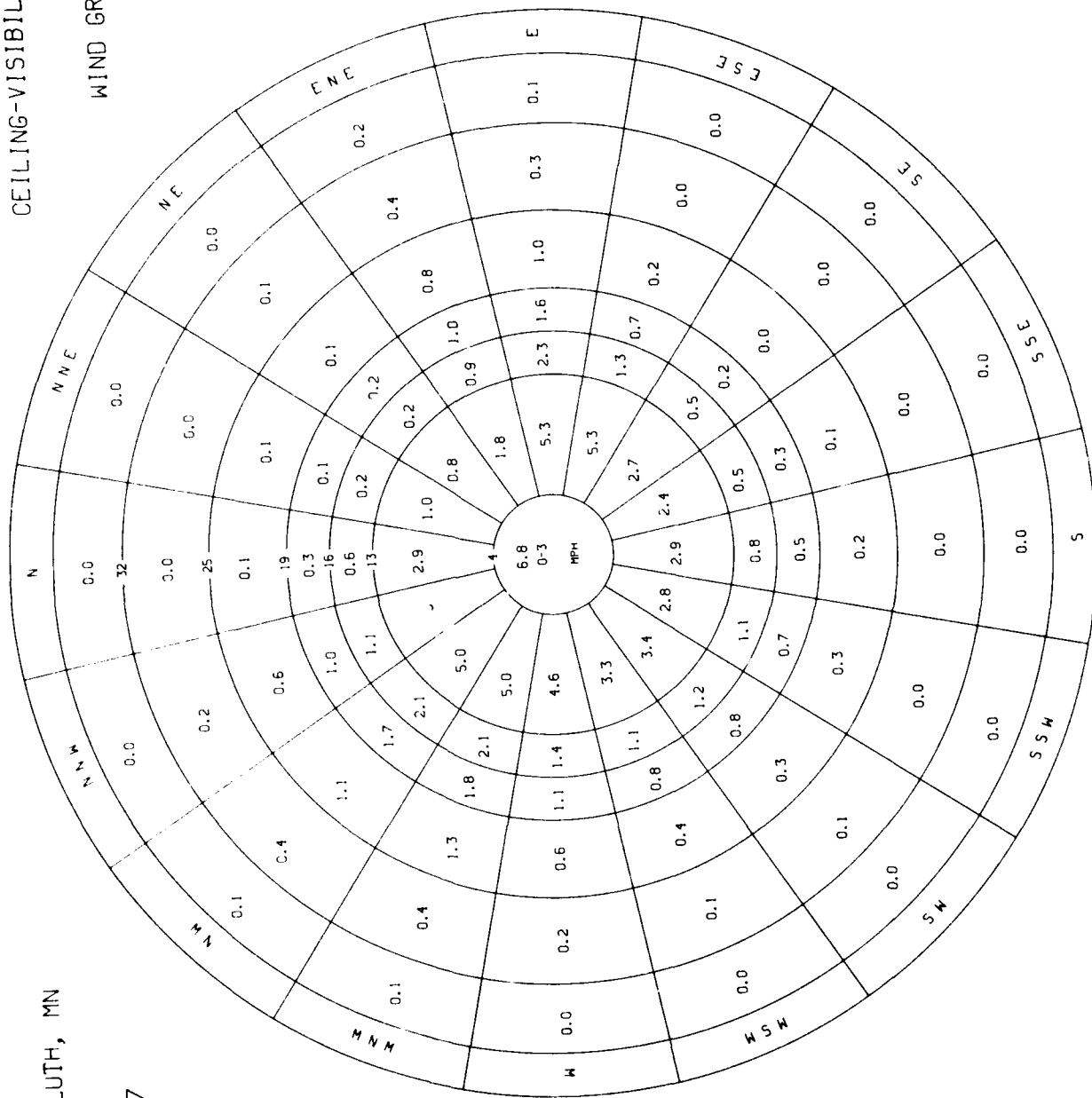
D I R	SPEED GROUPS (MPH)																					AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL							
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D						
N	.0	.1	.0	.6	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8						
NNE	.0	.0	.0	.4	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.6						
NE	.0	.7	.0	1.2	.0	.2	.0	.3	.0	.1	.0	.2	.0	.6	.1	3.3						
ENE	.0	.6	.1	3.4	.0	1.8	.0	1.3	.0	2.0	.0	1.6	.0	1.8	.3	12.4						
E	.0	1.3	.3	15.3	.1	5.7	.1	4.3	.1	2.9	.0	1.6	.0	1.1	.7	32.2						
ESE	.0	1.8	.3	15.4	.1	2.9	.0	2.0	.0	.3	.0	.1	.0	.0	.5	22.5						
SE	.0	.9	.1	4.4	.0	.3	.0	.1	.0	.1	.0	.0	.0	.0	.1	5.9						
SSE	.0	.1	.1	2.8	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	3.0						
S	.0	1.0	.1	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	3.6						
SSW	.0	.2	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2						
SW	.0	.1	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2						
WSW	.0	.1	.0	1.4	.0	.4	.0	.0	.0	.0	.0	.1	.0	.1	.0	2.2						
W	.0	.2	.0	1.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3						
WNW	.0	.1	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.7						
NW	.0	.2	.0	1.1	.0	.0	.0	.1	.0	.1	.0	.0	.0	.2	.0	1.8						
NNW	.0	.1	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.9						
CALM	.1	5.4													.1	5.4						
TOTAL	.3	13.0	1.2	53.6	.3	11.8	.2	8.2	.1	5.7	.1	3.6	.1	4.2	2.2	100						

CEILING-VISIBILITY

WIND GRAPH

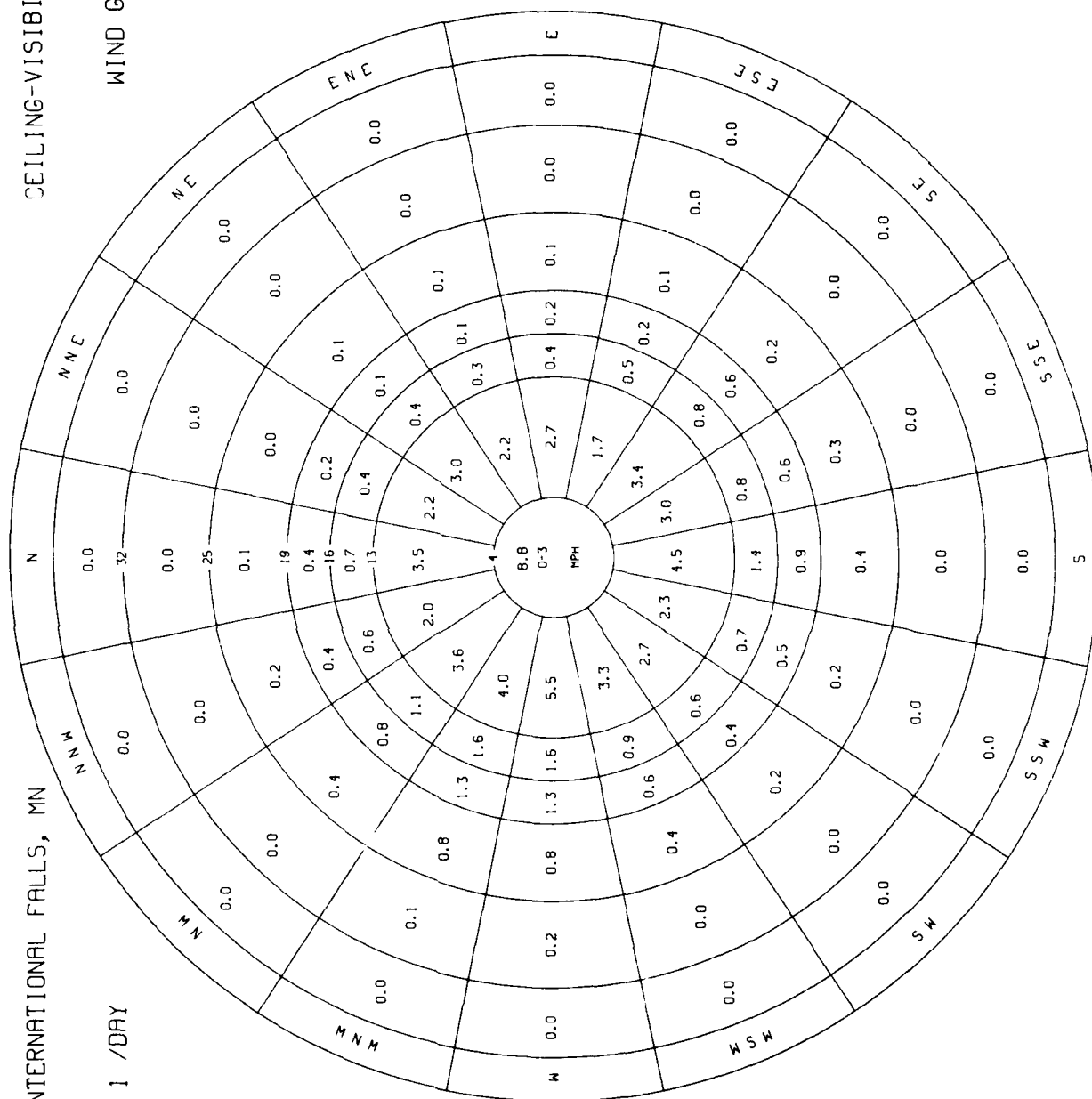
DLH DULUTH, MN

CLASS 7



CEILING-VISIBILITY
WIND GRAPH

INL INTERNATIONAL FALLS, MN
CLASS 1 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: INL INTERNATIONAL FALLS, MN

CLASS 1 / DAY

NO. OBS.: 40903

STATION NUMBER: 14918

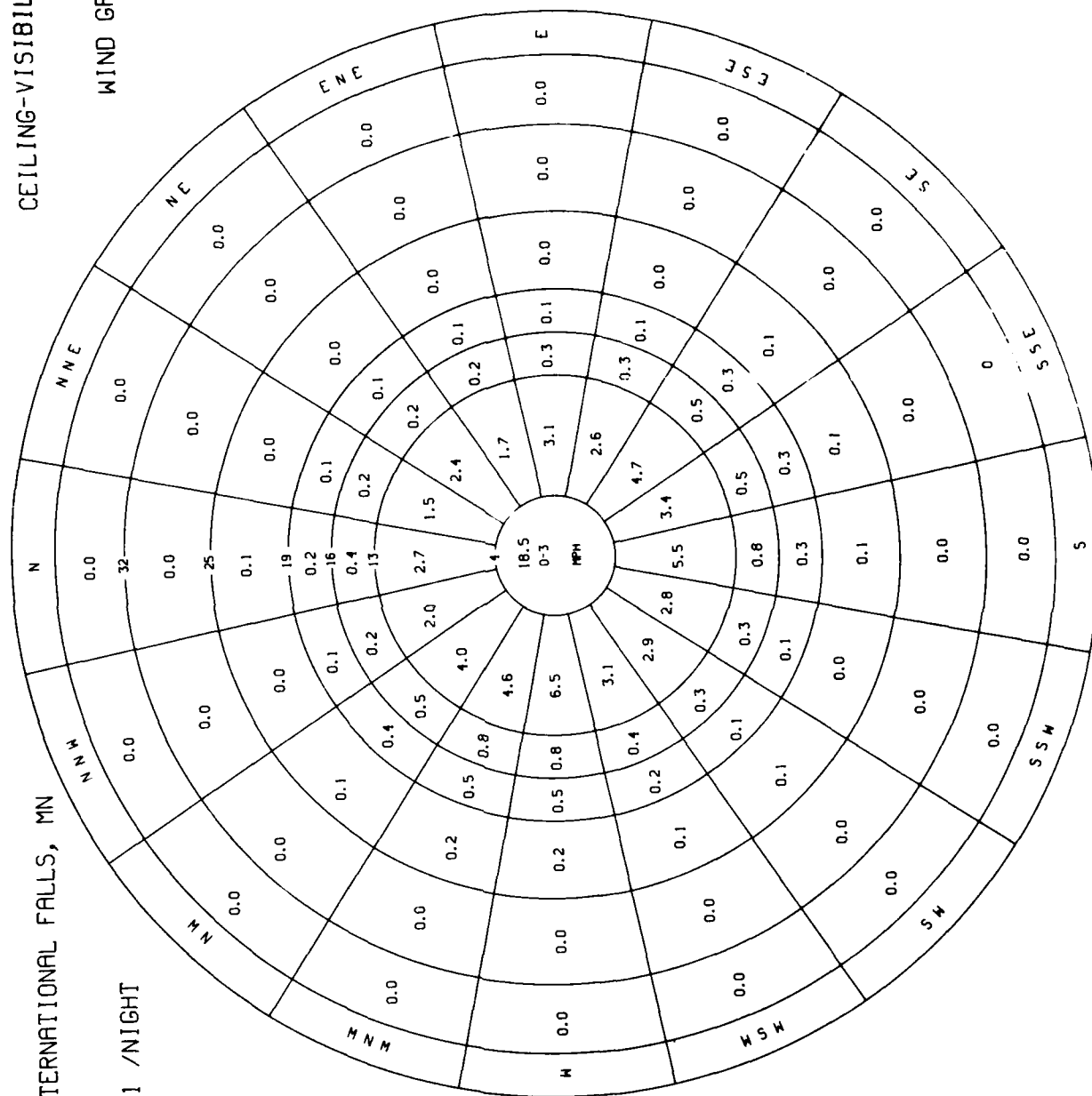
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.3	.3	3.5	4.1	.7	.9	.4	.5	.1	.2	.0	.0	.0	.0	5.0 5.9
NNE	.3	.3	2.2	2.6	.4	.5	.2	.2	.0	.0	.0	.0	.0	.0	3.1 3.7
NNE	.4	.5	3.0	3.6	.4	.5	.1	.2	.1	.1	.0	.0	.0	.0	4.1 4.8
ENE	.2	.2	2.2	2.6	.3	.4	.1	.2	.1	.1	.0	.0	.0	.0	3.0 3.5
E	.3	.4	2.7	3.1	.4	.5	.2	.3	.1	.1	.0	.0	.0	.0	3.7 4.4
ESE	.1	.2	1.7	2.0	.5	.6	.2	.3	.1	.1	.0	.0	.0	.0	2.6 3.1
SE	.3	.4	3.4	4.0	.8	1.0	.6	.7	.2	.3	.0	.0	.0	.0	5.5 6.4
SSE	.3	.3	3.0	3.5	.8	.9	.6	.7	.3	.3	.0	.0	.0	.0	4.9 5.8
S	.5	.6	4.5	5.3	1.4	1.6	.9	1.0	.4	.5	.0	.0	.0	.0	7.7 9.1
SSW	.3	.3	2.3	2.7	.7	.8	.5	.6	.2	.2	.0	.0	.0	.0	3.9 4.6
SW	.3	.3	2.7	3.2	.6	.8	.4	.5	.2	.2	.0	.0	.0	.0	4.3 5.0
WSW	.3	.3	3.3	3.9	.9	1.0	.6	.7	.4	.4	.0	.1	.0	.0	5.5 6.4
W	.5	.6	5.5	6.4	1.6	1.9	1.3	1.5	.8	.9	.2	.2	.0	.0	9.8 11.6
WNW	.2	.3	4.0	4.7	1.6	1.9	1.3	1.6	.8	.9	.1	.1	.0	.0	8.1 9.6
NW	.3	.3	3.6	4.2	1.1	1.3	.8	.9	.4	.5	.0	.0	.0	.0	6.2 7.3
NNW	.1	.2	2.0	2.4	.6	.7	.4	.5	.2	.2	.0	.0	.0	.0	3.4 4.0
CALM	4.0	4.8													4.0 4.8
TOTAL	8.8	10.4	49.7	58.4	13.0	15.3	8.7	10.3	4.2	5.0	.5	.6	.0	.1	85.0 100

CEILING-VISIBILITY

WIND GRAPH

INL INTERNATIONAL FALLS, MN

CLASS 1 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: INL INTERNATIONAL FALLS, MN

PERIOD: 1948-1978

CLASS 1 / NIGHT

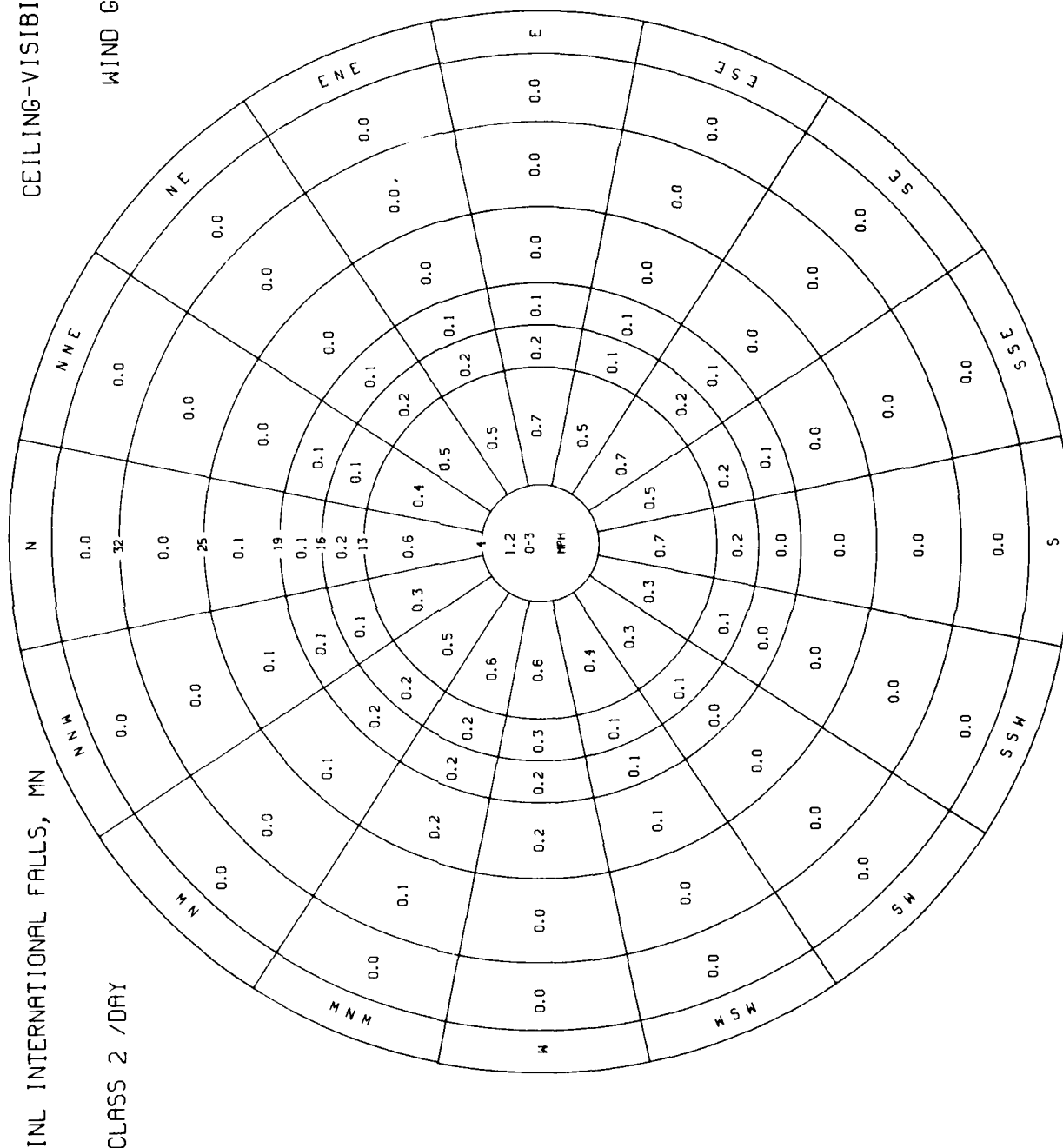
STATION NUMBER: 14918

NO. OBS.: 35488

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.4	.5	2.7	3.2	.4	.4	.2	.2	.1	.1	.0	.0	.0	.0	3.8	4.5	8.5
NNE	.2	.3	1.5	1.8	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	2.0	2.4	8.1
NE	.5	.6	2.4	2.9	.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	3.3	3.9	7.6
ENE	.3	.3	1.7	2.1	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	2.3	2.7	7.8
E	.4	.5	3.1	3.7	.3	.3	.1	.1	.0	.0	.0	.0	.0	.0	3.9	4.7	7.9
ESE	.3	.4	2.6	3.1	.3	.3	.1	.1	.0	.0	.0	.0	.0	.0	3.4	4.0	8.5
SE	.6	.8	4.7	5.7	.5	.6	.3	.3	.1	.1	.0	.0	.0	.0	6.3	7.5	8.3
SSE	.6	.7	3.4	4.0	.5	.6	.3	.3	.1	.1	.0	.0	.0	.0	4.8	5.8	8.6
S	1.1	1.3	5.5	6.6	.8	1.0	.3	.4	.1	.2	.0	.0	.0	.0	7.9	9.4	8.2
SSW	.6	.7	2.8	3.3	.3	.4	.1	.2	.0	.1	.0	.0	.0	.0	3.9	4.6	7.8
SW	.6	.7	2.9	3.4	.3	.3	.1	.1	.1	.1	.0	.0	.0	.0	4.0	4.7	7.7
WSW	.5	.6	3.1	3.7	.4	.4	.2	.2	.1	.1	.0	.0	.0	.0	4.2	5.0	8.3
W	1.0	1.1	6.5	7.8	.8	1.0	.5	.5	.2	.3	.0	.0	.0	.0	9.0	10.8	8.7
WNW	.5	.6	4.6	5.6	.8	1.0	.5	.6	.2	.2	.0	.0	.0	.0	6.7	8.0	9.6
NW	.6	.7	4.0	4.7	.5	.6	.4	.4	.1	.1	.0	.0	.0	.0	5.5	6.6	8.7
NNW	.3	.3	2.0	2.4	.2	.3	.1	.2	.0	.0	.0	.0	.0	.0	2.7	3.2	8.3
CALM	10.0	12.0													10.0	12.0	
TOTAL	18.5	22.1	53.6	64.1	6.6	7.9	3.4	4.1	1.3	1.6	.2	.2	.0	.0	83.6	100	7.4

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: INL INTERNATIONAL FALLS, MN

PERIOD: 1948-1978

CLASS 2 / DAY

STATION NUMBER: 14918

NO. OBS.: 7195

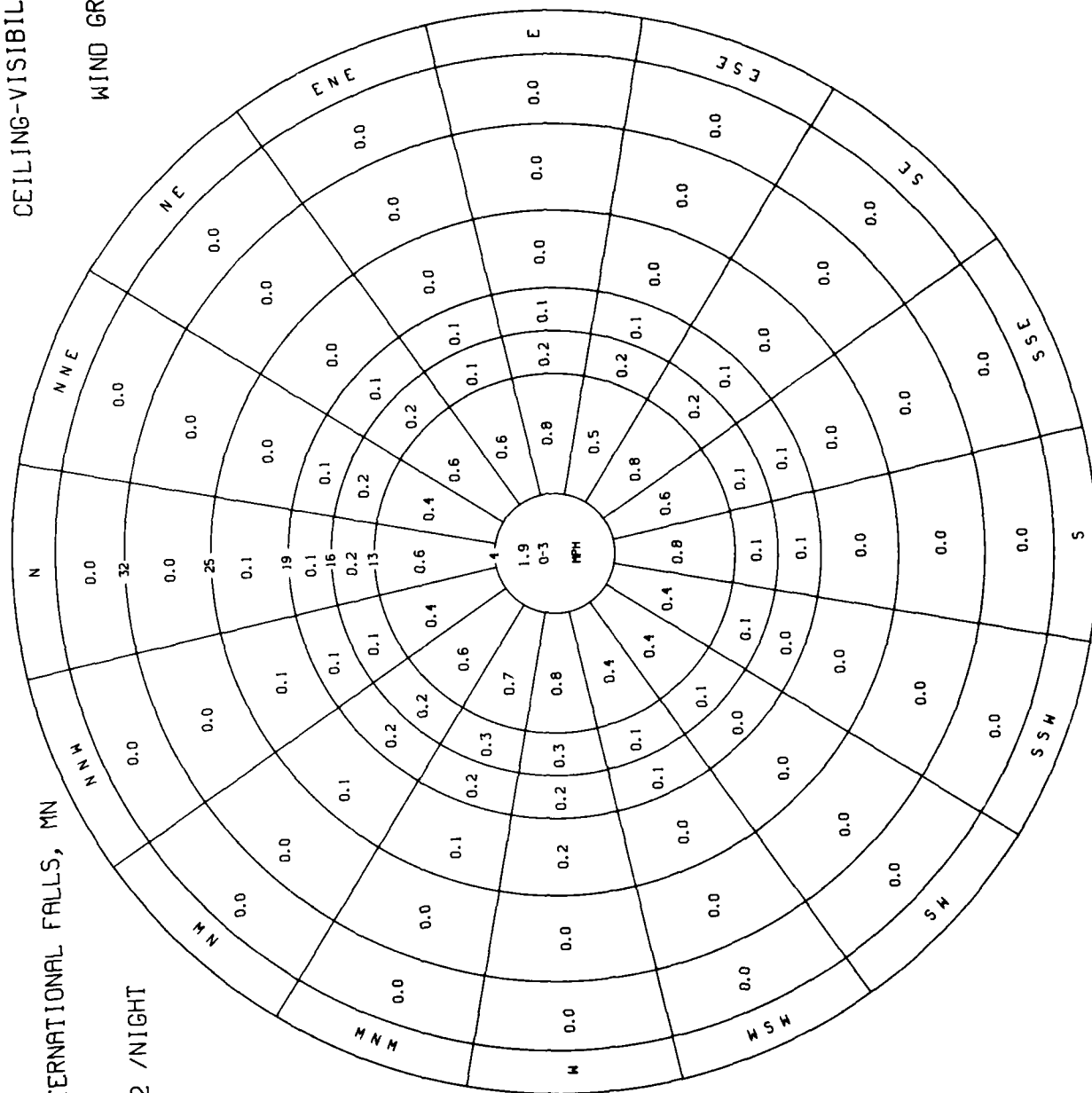
O I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.0	.3	.6	4.1	.2	1.5	.1	.8	.1	.5	.0	.1	.0	.0	1.1	7.2	11.6
NNE	.0	.3	.4	2.6	.1	.9	.1	.7	.0	.3	.0	.1	.0	.0	.7	4.9	11.6
NE	.1	.4	.5	3.5	.2	1.1	.1	.8	.0	.3	.0	.1	.0	.0	.9	6.2	10.9
ENE	.0	.2	.5	3.1	.2	1.3	.1	.8	.0	.3	.0	.1	.0	.0	.9	5.7	11.7
E	.1	.4	.7	4.5	.2	1.1	.1	.9	.0	.2	.0	.0	.0	.0	1.1	7.2	10.6
ESE	.0	.2	.5	3.6	.1	1.0	.1	.4	.0	.2	.0	.0	.0	.0	.8	5.5	10.6
SE	.1	.5	.7	4.5	.2	1.3	.1	.7	.0	.2	.0	.1	.0	.0	1.1	7.2	10.4
SSE	.0	.3	.5	3.4	.2	1.1	.1	.5	.0	.1	.0	.0	.0	.0	.8	5.4	10.4
S	.1	.5	.7	4.5	.2	1.1	.0	.3	.0	.2	.0	.0	.0	.0	1.0	6.6	9.8
SSW	.0	.2	.3	2.2	.1	.5	.0	.2	.0	.0	.0	.0	.0	.0	.5	3.2	9.6
SW	.0	.2	.3	2.2	.1	.5	.0	.3	.0	.2	.0	.0	.0	.0	.5	3.5	10.5
WSW	.0	.3	.4	2.4	.1	.7	.1	.7	.1	.4	.0	.1	.0	.0	.7	4.5	11.7
W	.0	.2	.6	4.2	.3	1.7	.2	1.6	.2	1.1	.0	.3	.0	.0	1.4	9.1	13.1
WNW	.0	.1	.6	3.8	.2	1.6	.2	1.3	.2	1.3	.1	.4	.0	.0	1.3	8.6	13.8
NW	.0	.2	.5	3.2	.2	1.5	.2	1.1	.1	.9	.0	.1	.0	.0	1.0	6.9	12.9
NNW	.0	.2	.3	2.2	.1	.8	.1	.9	.1	.5	.0	.1	.0	.0	.7	4.6	12.6
CALM	.6	3.7													.6	3.7	
TOTAL	1.2	8.2	8.1	54.2	2.6	17.7	1.8	11.9	1.0	6.5	.2	1.4	.0	.0	15.0	100	11.1

CEILING-VISIBILITY

WIND GRAPH

INL INTERNATIONAL FALLS, MN

CLASS 2 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: INL INTERNATIONAL FALLS, MN

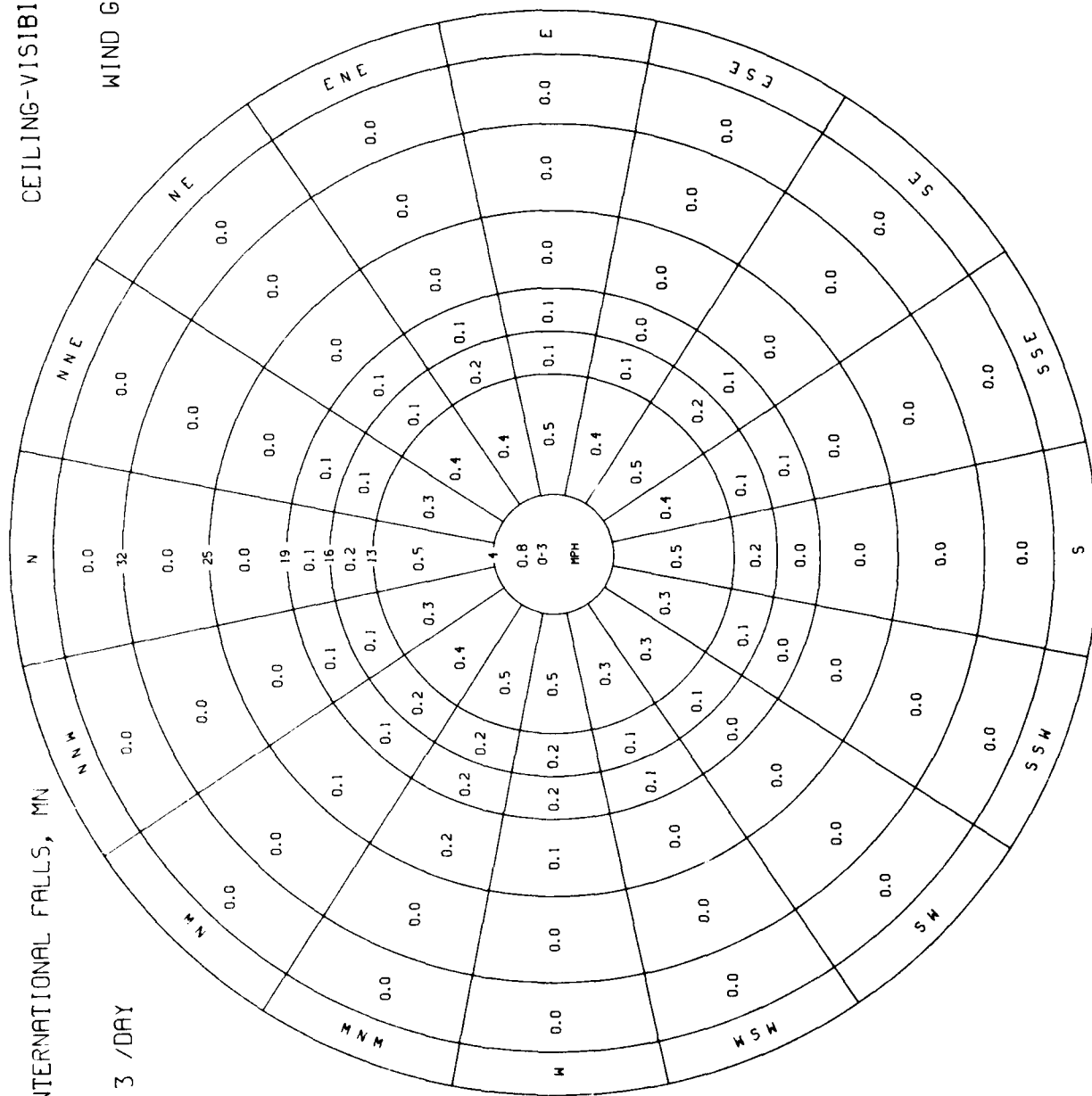
CLASS 2 / NIGHT

NO. OBS.: 6978

STATION NUMBER: 14918

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.1	.3	.6	3.7	.2	1.2	.1	.9	.1	.4	.0	.1	.0	.0	1.1 6.6 11.6
NNE	.0	.2	.4	2.7	.2	1.0	.1	.6	.0	.2	.0	.1	.0	.0	.8 4.7 11.5
NE	.0	.3	.6	3.8	.2	1.1	.1	.7	.0	.2	.0	.0	.0	.0	1.0 6.2 10.7
ENE	.0	.2	.6	3.5	.1	.7	.1	.5	.0	.2	.0	.0	.0	.0	.8 5.1 10.3
E	.1	.7	.8	5.0	.2	1.0	.1	.5	.0	.2	.0	.0	.0	.0	1.2 7.4 9.6
ESE	.0	.3	.5	3.2	.2	1.0	.1	.4	.0	.1	.0	.0	.0	.0	.8 4.9 10.0
SE	.1	.5	.8	4.6	.2	1.2	.1	.6	.0	.2	.0	.0	.0	.0	1.2 7.2 9.9
SSE	.0	.2	.6	3.4	.1	.5	.1	.4	.0	.1	.0	.0	.0	.0	.8 4.6 9.6
S	.1	.5	.8	4.7	.1	.7	.1	.5	.0	.1	.0	.0	.0	.0	1.1 6.6 9.2
SSW	.1	.3	.4	2.3	.1	.4	.0	.2	.0	.1	.0	.0	.0	.0	.5 3.3 8.9
SW	.1	.3	.4	2.3	.1	.4	.0	.2	.0	.1	.0	.0	.0	.0	.6 3.4 9.3
WSW	.0	.3	.4	2.4	.1	.4	.1	.4	.0	.2	.0	.0	.0	.0	.6 3.7 10.5
W	.1	.5	.8	5.1	.3	1.7	.2	1.4	.2	1.1	.0	.2	.0	.0	1.6 10.0 12.1
WNW	.0	.3	.7	4.4	.3	1.6	.2	1.3	.1	.8	.0	.1	.0	.0	1.4 8.5 12.2
NW	.1	.3	.6	3.8	.2	1.3	.2	1.0	.1	.7	.0	.0	.0	.0	1.2 7.2 11.8
NNW	.0	.2	.4	2.6	.1	.8	.1	.5	.1	.3	.0	.1	.0	.0	.7 4.5 11.6
CALM	1.0	6.1													1.0 6.1
TOTAL	1.9	11.5	9.4	57.3	2.5	15.1	1.7	10.2	.8	5.1	.1	.7	.0	.0	16.4 100 10.1

INL INTERNATIONAL FALLS, MN
 CLASS 3 /DAY
 CEILING-VISIBILITY
 WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: INL INTERNATIONAL FALLS, MN

CLASS 3 / DAY

NO. OBS.: 5930

STATION NUMBER: 14918

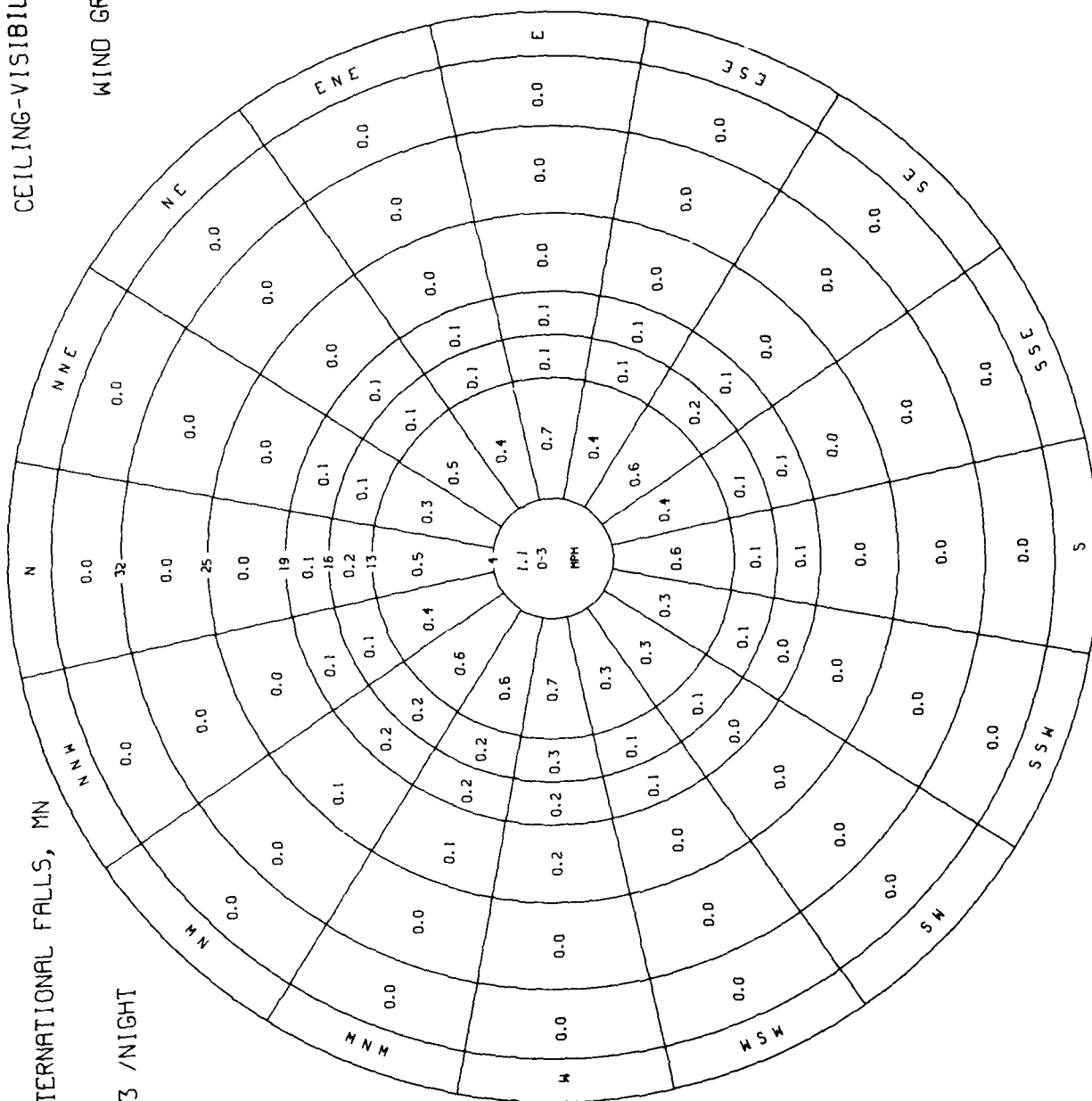
D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.2	.5	4.5	.2	1.6	.1	.8	.0	.4	.0	.1	.0	.0	.9	7.5	11.4
NNE	.0	.3	.3	2.5	.1	.9	.1	.6	.0	.2	.0	.0	.0	.0	.6	4.5	11.1
NE	.1	.4	.4	3.5	.1	1.1	.1	.8	.0	.2	.0	.1	.0	.0	.7	6.0	10.6
ENE	.0	.2	.4	2.9	.2	1.3	.1	.7	.0	.2	.0	.0	.0	.0	.7	5.4	11.5
E	.0	.3	.5	4.4	.1	1.1	.1	.9	.0	.3	.0	.0	.0	.0	.9	7.1	10.9
ESE	.0	.1	.4	3.5	.1	.9	.0	.4	.0	.2	.0	.0	.0	.0	.6	5.2	10.6
SE	.0	.4	.5	4.4	.2	1.3	.1	.7	.0	.2	.0	.1	.0	.0	.9	7.0	10.6
SSE	.0	.2	.4	3.6	.1	1.2	.1	.6	.0	.1	.0	.0	.0	.0	.7	5.6	10.5
S	.0	.3	.5	4.4	.2	1.2	.0	.4	.0	.1	.0	.0	.0	.0	.8	6.5	10.3
SSW	.0	.2	.3	2.3	.1	.5	.0	.3	.0	.0	.0	.0	.0	.0	.4	3.4	10.0
SW	.0	.1	.3	2.2	.1	.6	.0	.3	.0	.2	.0	.0	.0	.0	.4	3.4	10.9
WSW	.0	.2	.3	2.5	.1	.7	.1	.8	.0	.4	.0	.1	.0	.0	.6	4.7	12.1
W	.0	.2	.5	4.2	.2	1.9	.2	1.8	.1	1.1	.0	.3	.0	.0	1.2	9.6	13.4
WNW	.0	.1	.5	4.1	.2	1.8	.2	1.4	.2	1.5	.0	.4	.0	.0	1.1	9.3	13.9
NW	.0	.2	.4	3.2	.2	1.6	.1	1.2	.1	.9	.0	.2	.0	.0	.9	7.3	13.1
NNW	.0	.1	.3	2.4	.1	1.0	.1	.9	.0	.4	.0	.1	.0	.0	.6	4.9	12.6
CALM	.3	2.6													.3	2.6	
TOTAL	.8	6.3	6.7	54.5	2.3	18.9	1.6	12.6	.8	6.4	.2	1.3	.0	.1	12.3	100	11.4

CEILING-VISIBILITY

WIND GRAPH

INL INTERNATIONAL FALLS, MN

CLASS 3 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: INL INTERNATIONAL FALLS, MN

PERIOD: 1948-1978

CLASS 3 / NIGHT

STATION NUMBER: 14918

NO. OBS.: 5661

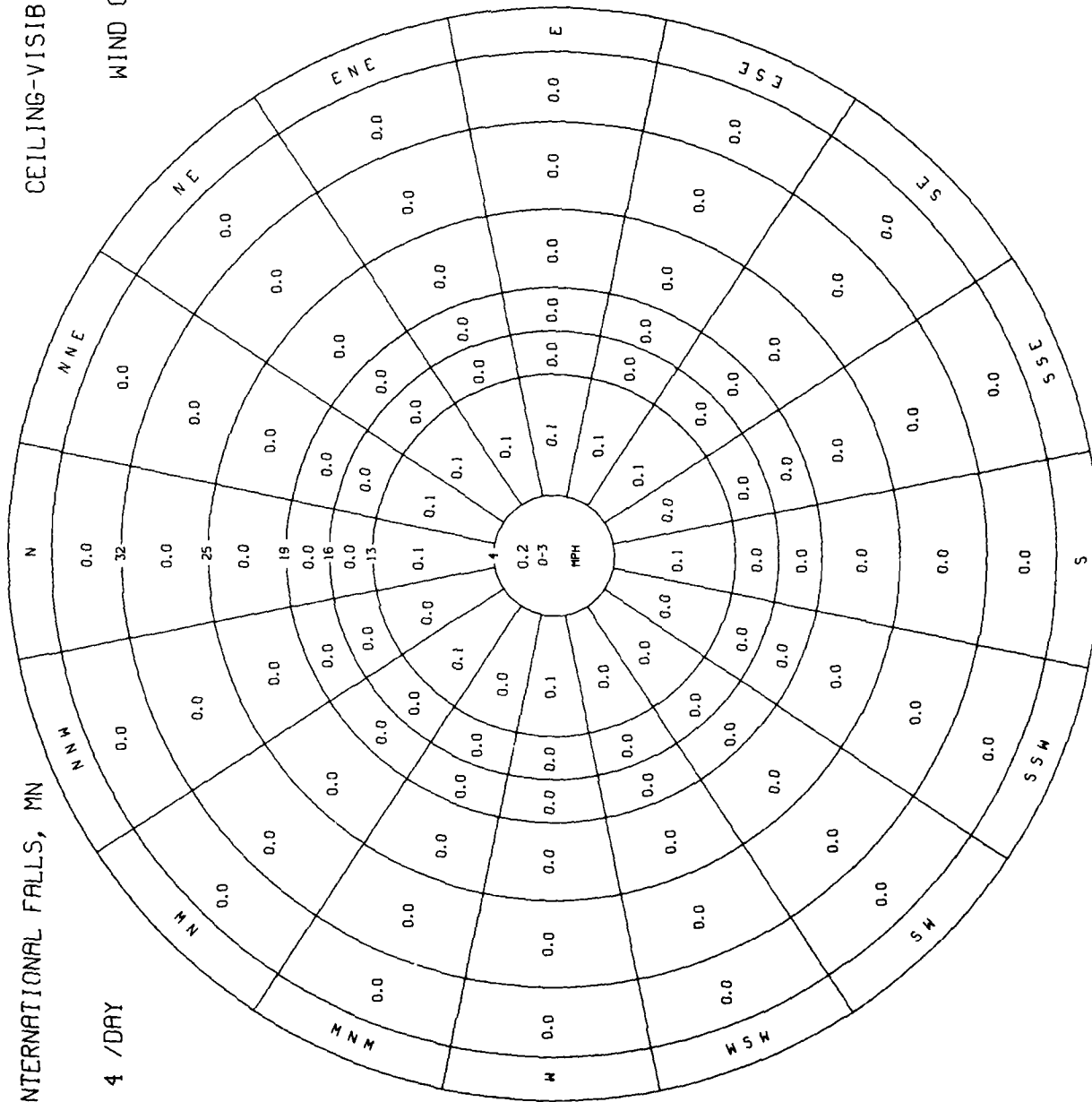
D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.0	.3	.5	3.8	.2	1.2	.1	.9	.0	.3	.0	.0	.0	.0	.9	6.6	11.3
NNE	.0	.2	.3	2.6	.1	1.0	.1	.5	.0	.1	.0	.0	.0	.0	.6	4.4	11.0
NE	.0	.2	.5	4.0	.1	1.0	.1	.6	.0	.2	.0	.0	.0	.0	.8	6.1	10.5
ENE	.0	.2	.4	3.4	.1	.6	.1	.4	.0	.1	.0	.0	.0	.0	.6	4.8	10.1
E	.1	.6	.7	5.1	.1	.9	.1	.5	.0	.2	.0	.0	.0	.0	1.0	7.3	9.6
ESE	.0	.2	.4	3.2	.1	1.0	.1	.4	.0	.1	.0	.0	.0	.0	.7	4.9	10.1
SE	.1	.4	.6	4.9	.2	1.4	.1	.6	.0	.2	.0	.0	.0	.0	1.0	7.5	10.0
SSE	.0	.2	.4	3.4	.1	.7	.1	.5	.0	.1	.0	.0	.0	.0	.6	4.8	10.0
S	.1	.4	.6	4.5	.1	.9	.1	.5	.0	.1	.0	.0	.0	.0	.9	6.4	9.6
SSW	.0	.3	.3	2.4	.1	.5	.0	.3	.0	.0	.0	.0	.0	.0	.5	3.5	9.1
SW	.0	.3	.3	2.3	.1	.5	.0	.3	.0	.1	.0	.1	.0	.0	.5	3.6	9.8
WSW	.0	.2	.3	2.4	.1	.5	.1	.5	.0	.2	.0	.0	.0	.0	.5	3.9	11.1
W	.0	.4	.7	5.2	.3	2.0	.2	1.6	.2	1.2	.0	.2	.0	.0	1.4	10.5	12.4
WNW	.0	.3	.6	4.8	.2	1.8	.2	1.4	.1	.8	.0	.2	.0	.0	1.2	9.3	12.3
NW	.0	.3	.6	4.1	.2	1.5	.2	1.2	.1	.8	.0	.0	.0	.0	1.1	8.0	12.0
NNW	.0	.2	.4	2.7	.1	.9	.1	.6	.0	.3	.0	.0	.0	.0	.6	4.7	11.3
CALM	.5	3.8													.5	3.8	
TOTAL	1.1	8.5	7.8	58.8	2.2	16.3	1.5	10.9	.6	4.9	.1	.6	.0	.0	13.3	100	10.4

CEILING-VISIBILITY

WIND GRAPH

INL INTERNATIONAL FALLS, MN

CLASS 4 / DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: INL INTERNATIONAL FALLS, MN

PERIOD: 1948-1978

CLASS 4 / DAY

STATION NUMBER: 14918

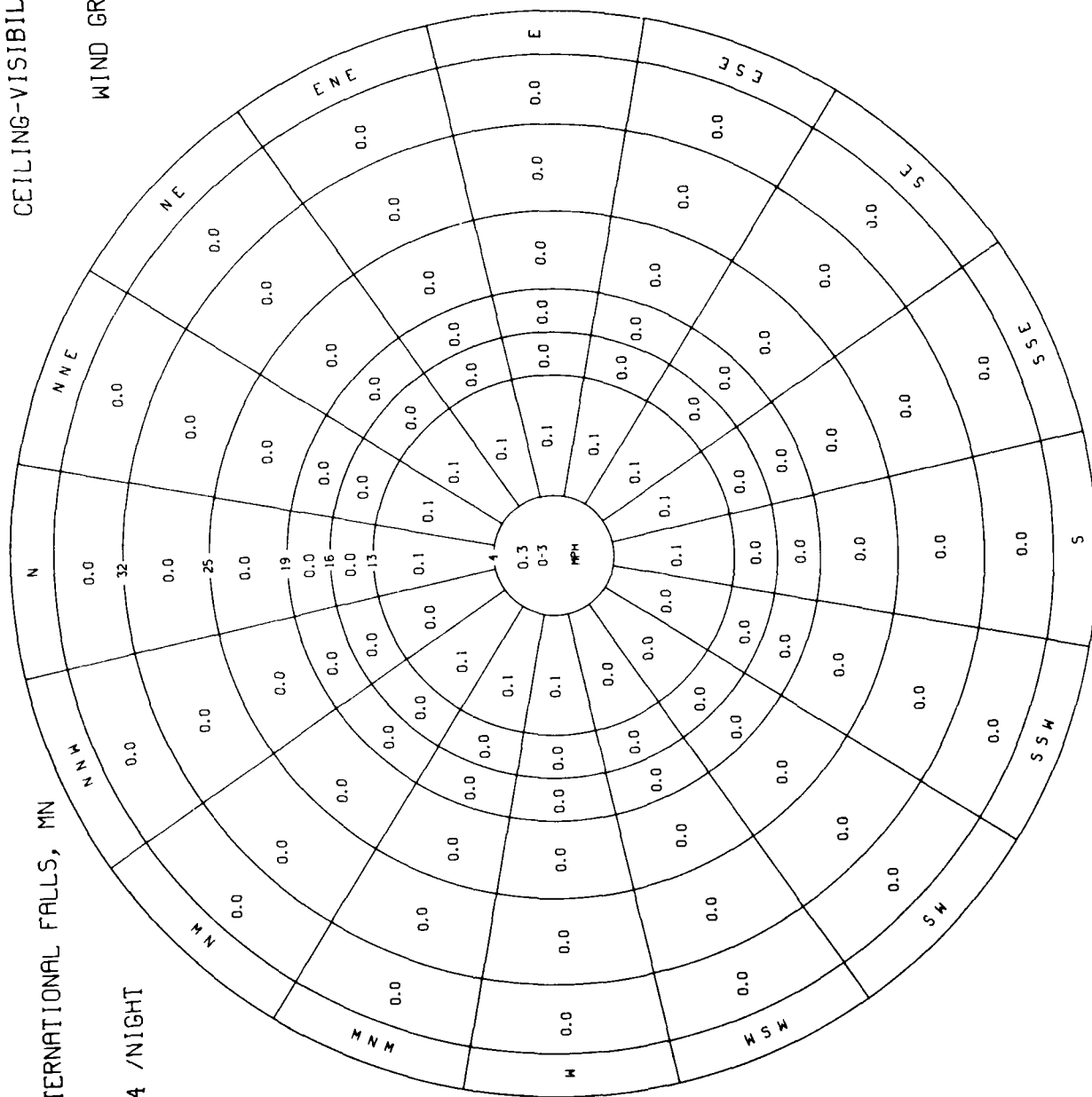
NO. OBS.: 923

D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	O	
N	.0	.3	.1	3.1	.0	1.3	.0	.9	.0	.9	.0	.1	.0	.0	.1	6.6	12.5
NNE	.0	.0	.1	3.6	.0	.8	.0	1.1	.0	.7	.0	.2	.0	.0	.1	6.3	12.8
NE	.0	.4	.1	3.9	.0	1.4	.0	.9	.0	.8	.0	.0	.0	.0	.1	7.4	11.6
ENE	.0	.1	.1	4.1	.0	1.3	.0	1.0	.0	.8	.0	.2	.0	.0	.1	7.5	12.1
E	.0	.7	.1	5.3	.0	1.4	.0	.9	.0	.0	.0	.0	.0	.0	.2	8.2	10.0
ESE	.0	.1	.1	4.6	.0	1.5	.0	1.0	.0	.3	.0	.0	.0	.0	.1	7.5	10.9
SE	.0	.9	.1	5.6	.0	1.3	.0	.8	.0	.2	.0	.0	.0	.0	.2	8.8	9.6
SSE	.0	.3	.0	2.6	.0	.8	.0	.2	.0	.1	.0	.0	.0	.0	.1	4.0	9.9
S	.0	.7	.1	4.9	.0	.3	.0	.1	.0	.2	.0	.0	.0	.0	.1	6.2	8.3
SSW	.0	.3	.0	1.7	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4	7.4
SW	.0	.5	.0	2.3	.0	.1	.0	.3	.0	.3	.0	.1	.0	.0	.1	3.7	9.4
WSW	.0	.4	.0	1.7	.0	.4	.0	.2	.0	.3	.0	.2	.0	.0	.1	3.4	11.0
W	.0	.2	.1	4.0	.0	.9	.0	.7	.0	.8	.0	.2	.0	.0	.1	6.7	11.8
WNW	.0	.2	.0	2.6	.0	1.1	.0	.9	.0	.4	.0	.2	.0	.0	.1	5.4	12.4
NW	.0	.4	.1	3.3	.0	1.0	.0	.7	.0	.9	.0	.1	.0	.0	.1	6.3	11.9
NNW	.0	.2	.0	1.4	.0	.3	.0	.8	.0	1.0	.0	.1	.0	.0	.1	3.8	14.7
CALM	.1	6.0													.1	6.0	
TOTAL	.2	11.8	1.0	54.7	.3	14.2	.2	10.2	.1	7.6	.0	1.5	.0	.0	1.9	100	10.4

INL INTERNATIONAL FALLS, MN

WIND GRAPH

CLASS 4 / NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: INL INTERNATIONAL FALLS, MN

PERIOD: 1948-1978

CLASS 4 / NIGHT

STATION NUMBER: 14918

NO. OBS.: 902

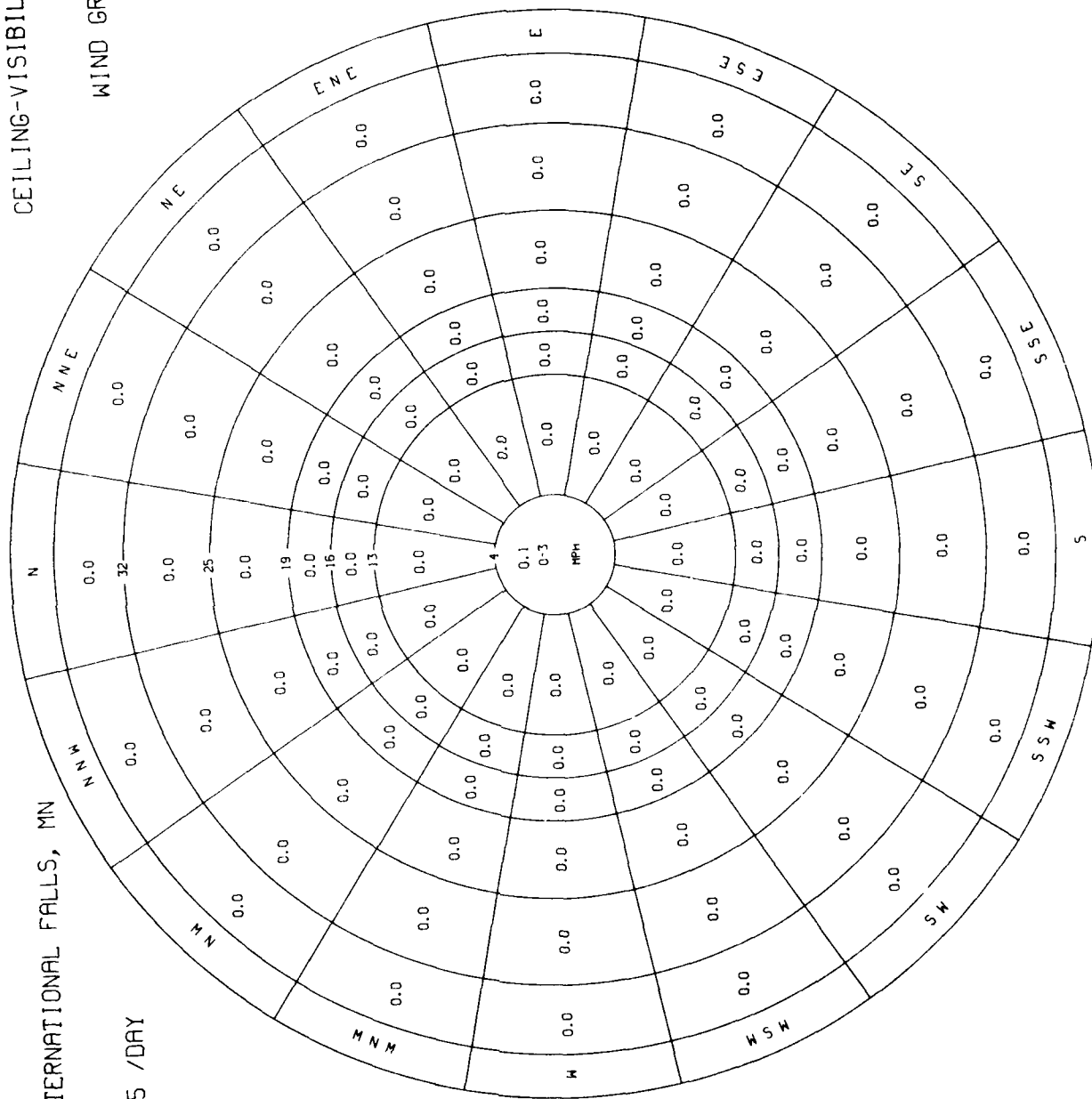
D I R	SPEED GROUPS (MPH)																		AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL				
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D			
N	.0	.3	.1	3.2	.0	1.7	.0	1.6	.0	.9	.0	.2	.0	.1	.2	8.0	13.5		
NNE	.0	.1	.1	4.1	.0	1.1	.0	1.0	.0	.7	.0	.1	.0	.0	.2	7.1	12.3		
NE	.0	.3	.1	2.9	.0	1.6	.0	1.6	.0	.0	.0	.1	.0	.0	.1	6.4	12.0		
ENE	.0	.1	.1	4.1	.0	1.3	.0	.9	.0	.7	.0	.1	.0	.0	.2	7.2	11.8		
E	.0	.8	.1	5.1	.0	1.8	.0	.3	.0	.1	.0	.1	.0	.0	.2	8.2	9.9		
ESE	.0	.6	.1	4.0	.0	.7	.0	.3	.0	.1	.0	.1	.0	.0	.1	5.8	9.9		
SE	.0	.7	.1	3.0	.0	.9	.0	.8	.0	.1	.0	.0	.0	.0	.1	5.4	9.6		
SSE	.0	.4	.1	3.7	.0	.1	.0	.2	.0	.1	.0	.0	.0	.0	.1	4.5	8.4		
S	.0	.6	.1	5.8	.0	.1	.0	.8	.0	.3	.0	.0	.0	.0	.2	7.5	8.8		
SSW	.0	.1	.0	1.4	.0	.1	.0	.1	.0	.2	.0	.0	.0	.0	.0	2.0	9.1		
SW	.0	.4	.0	1.7	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	2.3	7.3		
WSW	.0	.2	.0	2.1	.0	.0	.0	.1	.0	.2	.0	.0	.0	.0	.1	2.7	8.9		
W	.0	.8	.1	4.5	.0	.6	.0	.7	.0	1.1	.0	.2	.0	.1	.2	8.0	11.5		
WNW	.0	.2	.1	3.0	.0	.6	.0	1.2	.0	.9	.0	.0	.0	.0	.1	5.9	12.3		
NW	.0	.2	.1	2.8	.0	.8	.0	.2	.0	.7	.0	.0	.0	.0	.1	4.7	11.2		
NNW	.0	.0	.0	2.3	.0	.9	.0	.2	.0	.7	.0	.4	.0	.0	.1	4.5	14.0		
CALM	.2	9.8													.2	9.8			
TOTAL	.3	15.6	1.1	53.7	.3	12.2	.2	10.0	.1	6.9	.0	1.4	.0	.2	2.1	100	9.9		

CEILING-VISIBILITY

WIND GRAPH

INL INTERNATIONAL FALLS, MN

CLASS 5 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: INL INTERNATIONAL FALLS, MN

PERIOD: 1948-1978

CLASS 5 / DAY

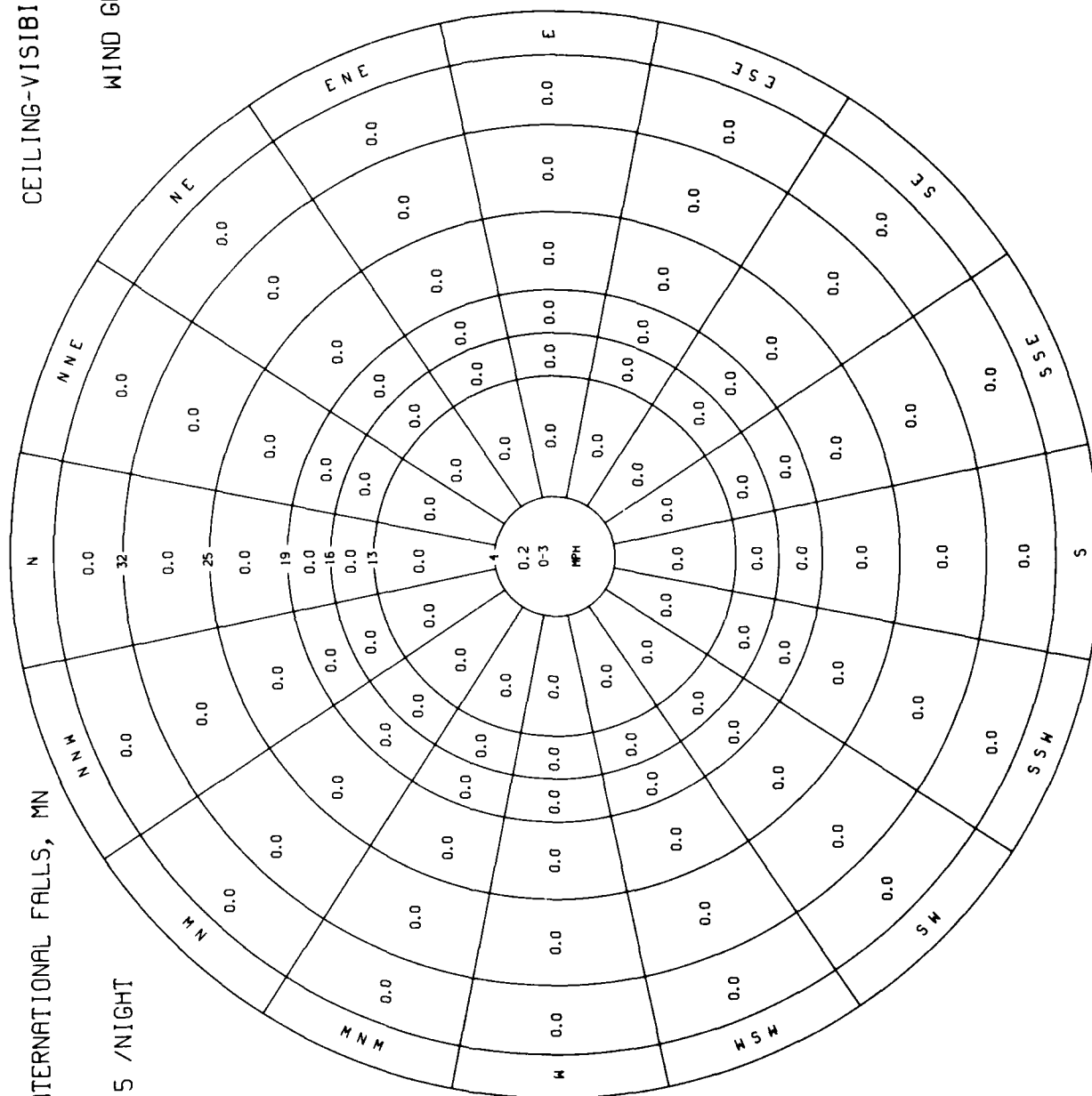
STATION NUMBER: 14918

NO. OBS.: 235

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		O
N	.0	.9	.0	2.1	.0	1.7	.0	.0	.0	2.6	.0	.0	.0	.0	.0	7.2	13.7
NNE	.0	.4	.0	2.1	.0	1.7	.0	1.3	.0	1.3	.0	.9	.0	.0	.0	7.7	15.7
NE	.0	.0	.0	2.1	.0	1.7	.0	1.7	.0	.4	.0	.9	.0	.0	.0	6.8	14.8
ENE	.0	.0	.0	4.3	.0	1.3	.0	.9	.0	.0	.0	.9	.0	.0	.0	7.2	12.8
E	.0	.9	.0	7.2	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.5	7.4
ESE	.0	.0	.0	5.5	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.4	8.9
SE	.0	1.7	.0	2.1	.0	.4	.0	.4	.0	.4	.0	.0	.0	.0	.0	5.1	9.2
SSE	.0	.4	.0	3.4	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	4.7	10.0
S	.0	1.3	.0	5.5	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	7.7	7.1
SSW	.0	1.3	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	5.7
SW	.0	.4	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	6.9
WSW	.0	1.3	.0	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.7	5.5
W	.0	.4	.0	3.0	.0	.0	.0	.0	.0	.9	.0	.4	.0	.0	.0	4.7	10.9
WNW	.0	.4	.0	2.6	.0	.0	.0	.4	.0	.4	.0	1.3	.0	.0	.0	5.1	14.7
NW	.0	.4	.0	2.1	.0	.0	.0	.9	.0	.4	.0	.0	.0	.0	.0	3.8	10.0
NNW	.0	.4	.0	1.3	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	2.1	7.8
CALM	.1	12.8													.1	12.8	
TOTAL	.1	23.0	.2	50.6	.0	8.5	.0	6.0	.0	7.7	.0	4.3	.0	.0	.5	100	9.3

INL INTERNATIONAL FALLS, MN

CLASS 5 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: INL INTERNATIONAL FALLS, MN

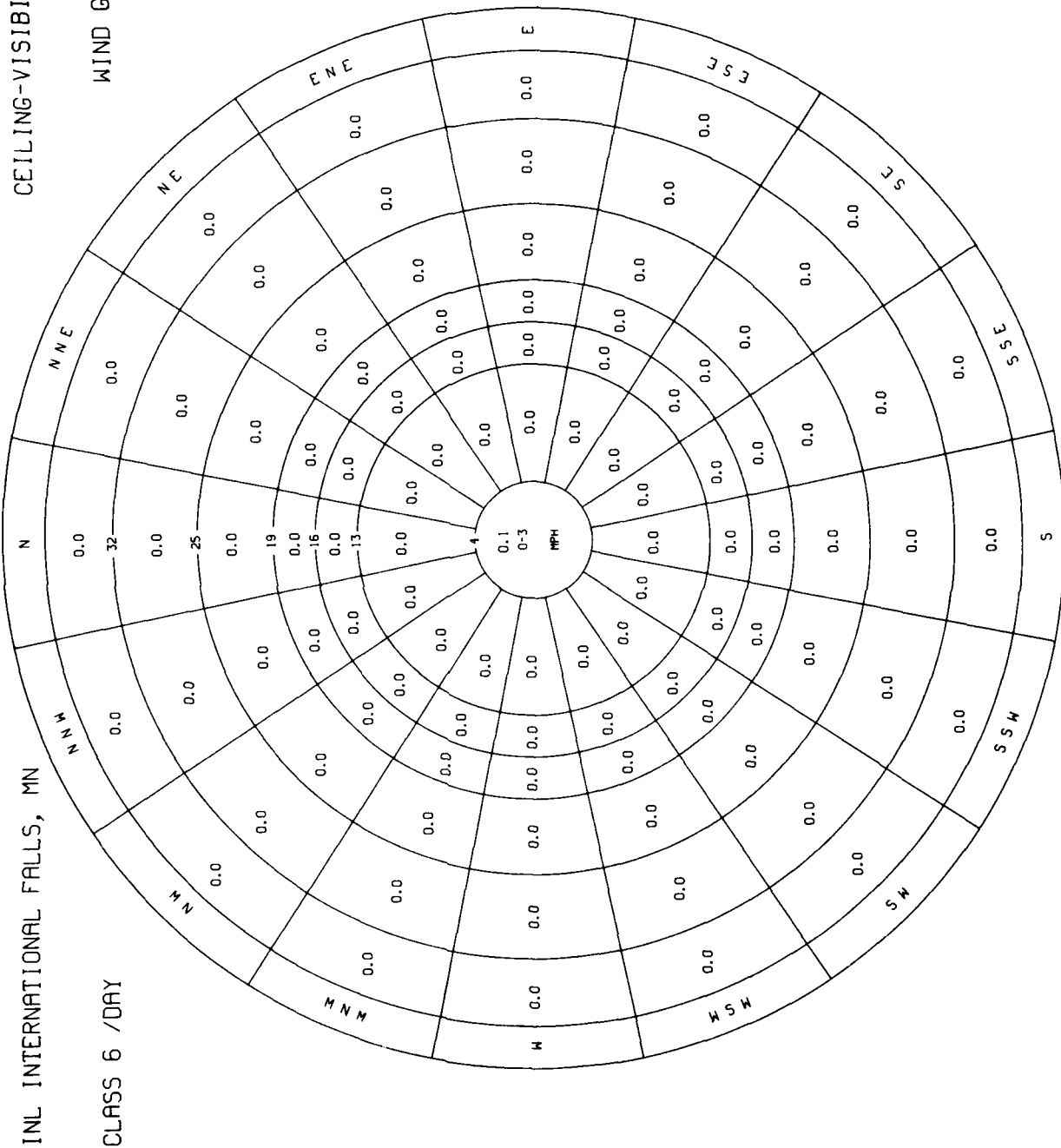
CLASS 5 / NIGHT

NO. OBS.: 280

STATION NUMBER: 14918

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	1.1	.0	2.5	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0 4.3 8.7
NNE	.0	.4	.0	1.1	.0	1.4	.0	.7	.0	.7	.0	.7	.0	.0	.0 5.0 14.8
NE	.0	1.1	.0	2.9	.0	2.1	.0	.4	.0	.7	.0	.4	.0	.0	.0 7.5 11.7
ENE	.0	1.4	.0	4.3	.0	.0	.0	.4	.0	.7	.0	.0	.0	.0	.0 6.8 8.8
E	.0	1.4	.0	4.6	.0	1.1	.0	.0	.0	.7	.0	.0	.0	.0	.1 7.9 9.3
ESE	.0	.4	.0	1.4	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.5 9.4
SE	.0	.7	.0	6.1	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0 7.5 8.0
SSE	.0	.0	.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.5 7.1
S	.0	1.8	.0	4.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 6.1 5.2
SSW	.0	.7	.0	3.9	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0 5.0 6.8
SW	.0	1.1	.0	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.9 5.7
WSW	.0	1.8	.0	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 4.6 5.1
W	.0	1.4	.0	4.3	.0	.4	.0	.0	.0	.0	.0	.4	.0	.0	.0 6.4 7.8
WNW	.0	.0	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.8 9.2
NW	.0	.4	.0	1.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0 2.1 6.8
NNW	.0	.0	.0	1.8	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0 2.5 9.7
CALM	.2	23.6													.2 23.6
TOTAL	.2	37.1	.3	48.6	.0	6.8	.0	2.1	.0	3.9	.0	1.4	.0	.0	.7 100 6.5

CEILING-VISIBILITY WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: INL INTERNATIONAL FALLS, MN

PERIOD: 1948-1978

CLASS 6 / DAY

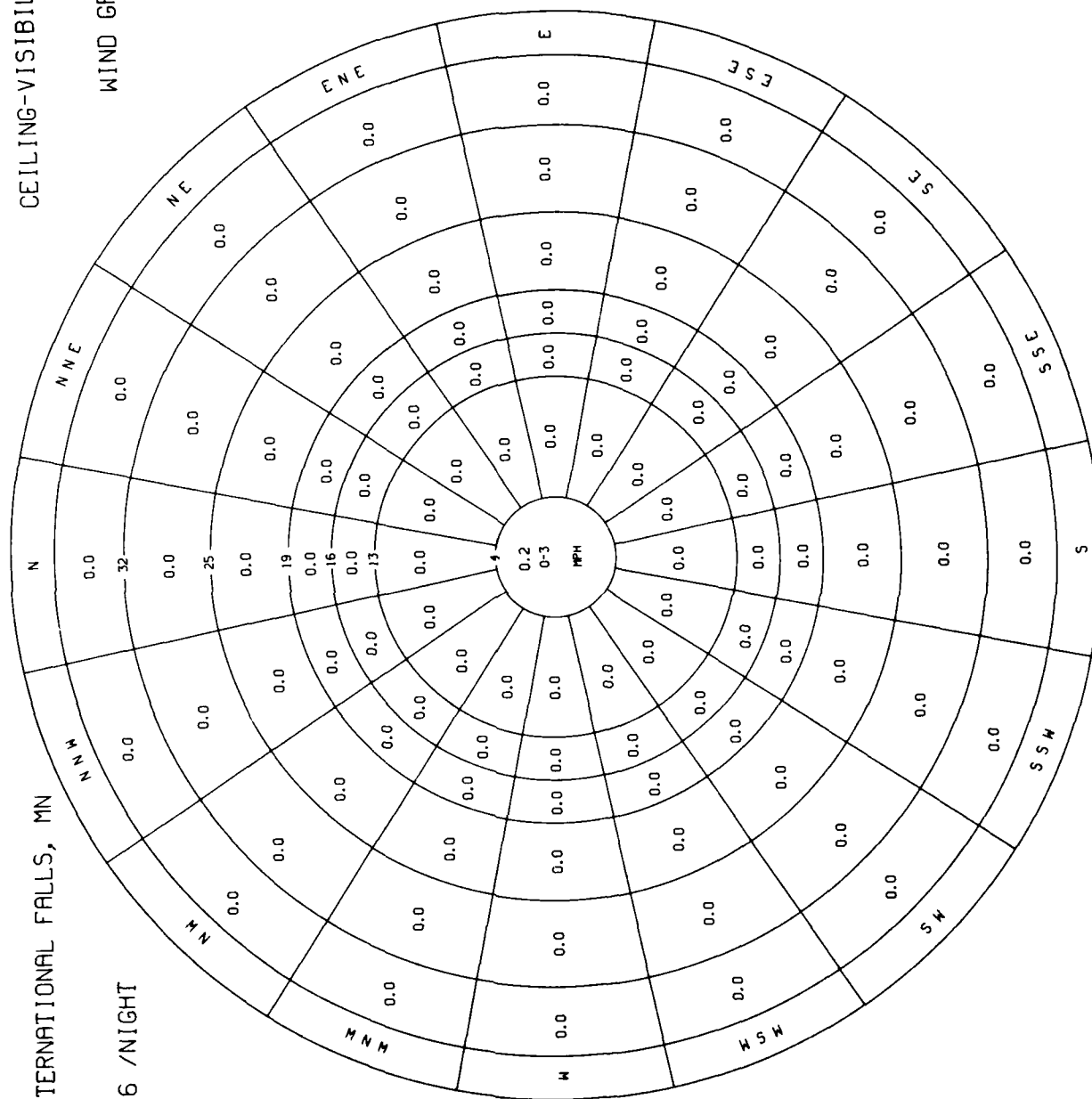
STATION NUMBER: 14918

NO. OBS.: 107

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9
NNE	.0	1.9	.0	1.9	.0	.0	.0	.0	.0	1.9	.0	.0	.0	.0	5.6
NE	.0	.9	.0	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7
ENE	.0	.9	.0	1.9	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	3.7
E	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9
ESE	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9
SE	.0	3.7	.0	4.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.4
SSE	.0	2.8	.0	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.6
S	.0	3.7	.0	6.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.3
SSW	.0	.0	.0	2.8	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	3.7
SW	.0	1.9	.0	4.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.5
WSW	.0	2.8	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7
W	.0	2.8	.0	5.6	.0	.0	.0	.0	.0	.9	.0	.9	.0	.0	10.3
NNW	.0	.9	.0	1.9	.0	.0	.0	.9	.0	.0	.0	.9	.0	.0	4.7
NW	.0	.0	.0	.9	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	1.9
NNW	.0	1.9	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7
CALM	.1	25.2													1 25.2
TOTAL	.1	50.5	.1	41.1	.0	.0	.0	1.9	.0	4.7	.0	1.9	.0	.0	2 100
															5.5

INL INTERNATIONAL FALLS, MN

CLASS 6 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: INL INTERNATIONAL FALLS, MN

PERIOD: 1948-1978

CLASS 6 / NIGHT

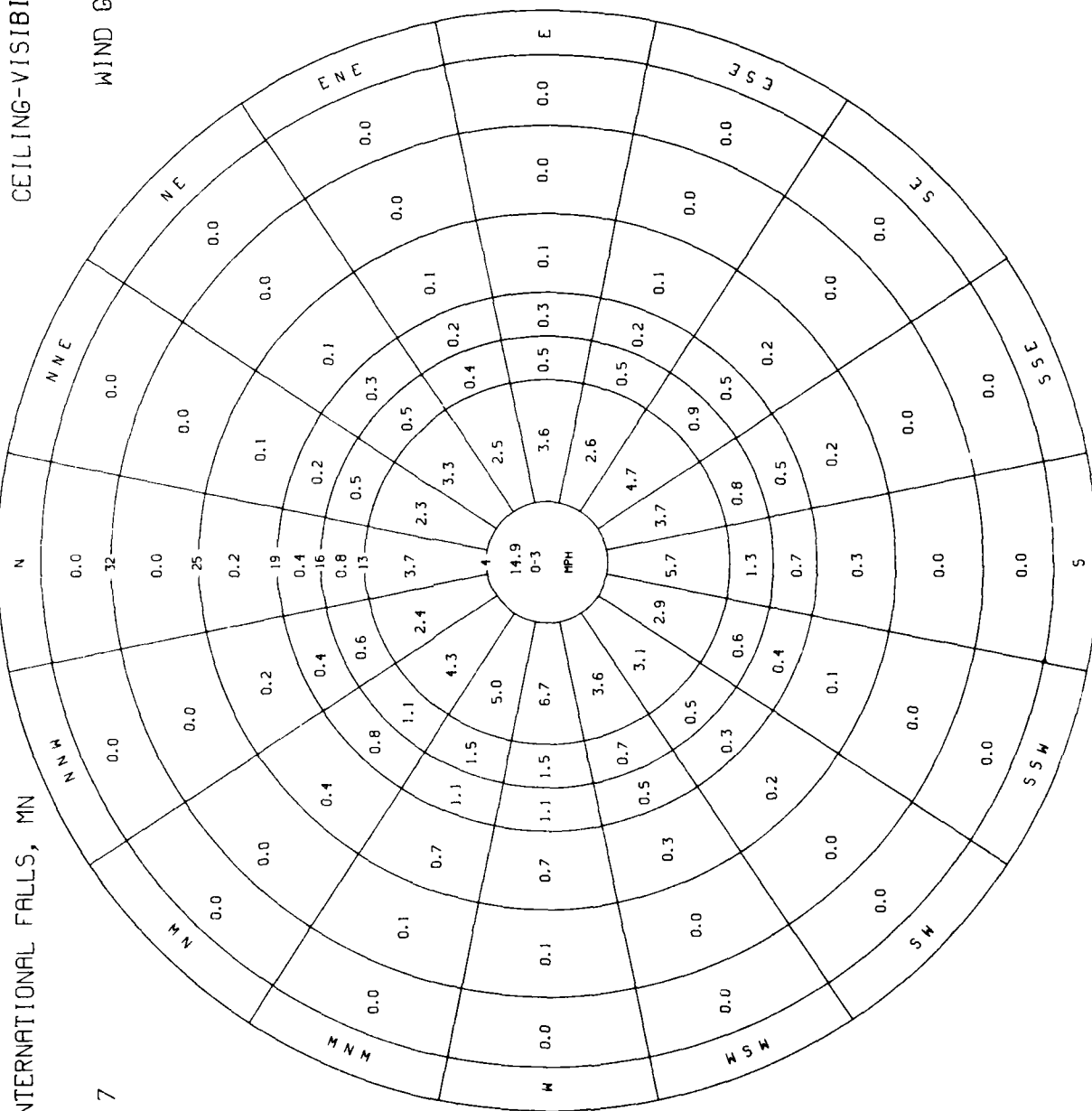
STATION NUMBER: 14918

NO. OBS.: 135

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED			
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C	D
N	.0	.0	.0	3.7	.0	.0	.0	.0	.0	.0	1.5	.0	.0	.0	.0	.0	5.2	11.6
NNE	.0	.0	.0	1.5	.0	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0	3.0	12.2
NE	.0	.7	.0	.7	.0	.0	.0	.0	.7	.0	.7	.0	.0	.0	.0	.0	3.0	12.0
ENE	.0	.0	.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	5.7
E	.0	.0	.0	3.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7	7.2
ESE	.0	.7	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	4.7
SE	.0	1.5	.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.4	5.7
SSE	.0	.7	.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7	5.0
S	.0	2.2	.0	5.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.4	5.3
SSW	.0	1.5	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	4.0
SW	.0	.7	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	5.0
WSW	.0	.7	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	5.2
W	.0	2.2	.0	6.7	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.6	6.8
WNW	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	3.0	10.5
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NNW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.1	43.7														.1	43.7	
TOTAL	.2	54.8	.1	39.3	.0	.7	.0	2.2	.0	3.0	.0	.0	.0	.0	.0	.3	100	4.1

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MSP MINNEAPOLIS ST PAUL, MN

PERIOD: 1948-1978

CLASS 1 / DAY

STATION NUMBER: 14922

NO. OBS.: 43187

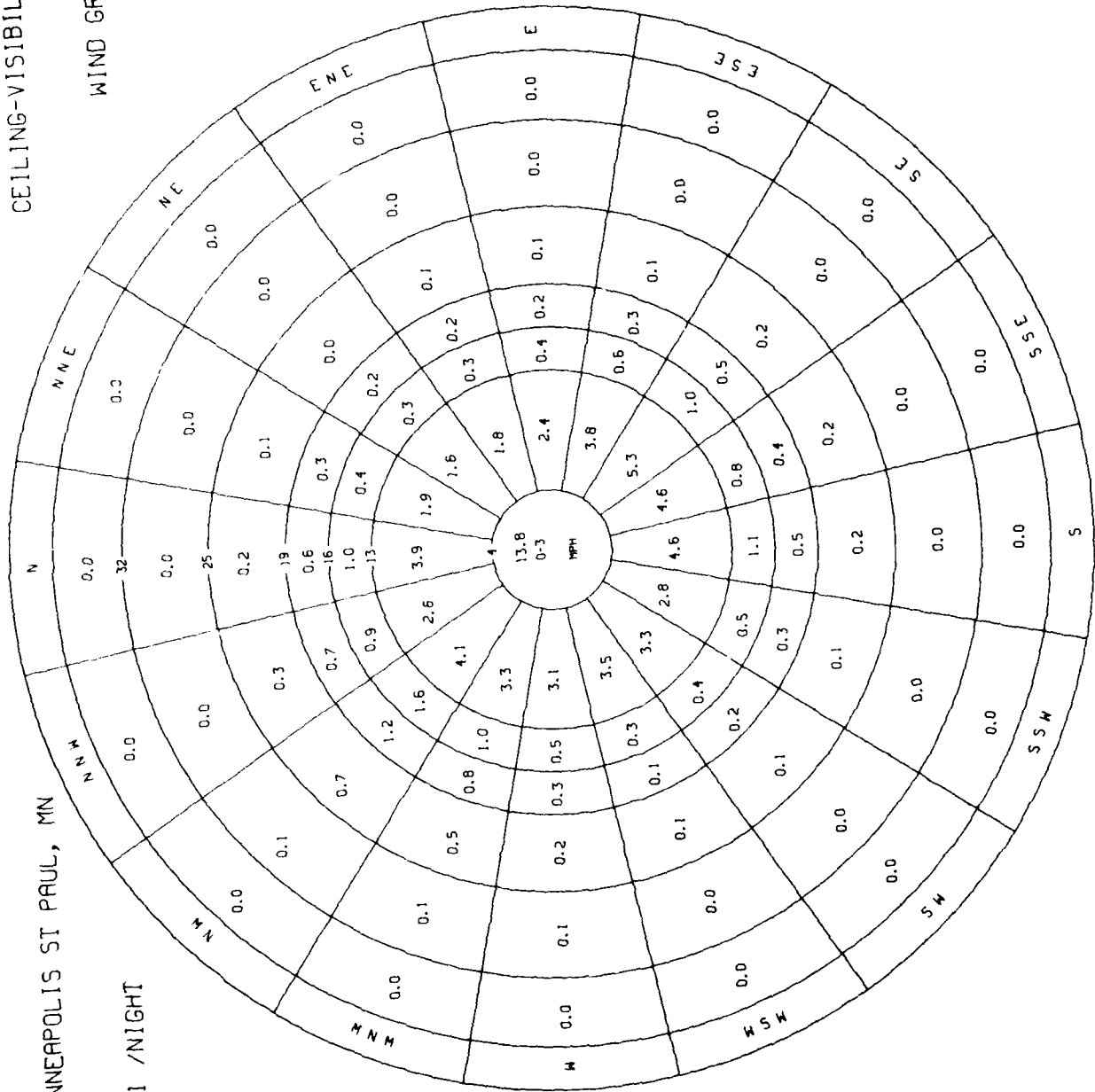
D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.3	.3	3.1	3.5	1.3	1.4	.8	.9	.3	.3	.0	.0	.0	.0	5.7	6.5	11.4
NNE	.1	.2	1.9	2.1	.7	.8	.4	.5	.2	.2	.0	.0	.0	.0	3.3	3.7	11.5
NE	.2	.2	1.4	1.6	.4	.5	.2	.3	.1	.1	.0	.0	.0	.0	2.4	2.7	10.4
ENE	.2	.2	1.5	1.7	.4	.4	.2	.3	.1	.1	.0	.0	.0	.0	2.4	2.7	10.6
E	.3	.3	2.0	2.3	.6	.7	.3	.4	.1	.1	.0	.0	.0	.0	3.4	3.9	10.5
ESE	.3	.3	3.1	3.6	.9	1.1	.5	.6	.3	.3	.0	.0	.0	.0	5.2	5.9	10.8
SE	.4	.5	4.0	4.6	1.1	1.3	.7	.8	.4	.5	.1	.1	.0	.0	6.8	7.7	10.9
SSE	.3	.3	3.1	3.6	1.1	1.3	.9	1.0	.5	.6	.1	.1	.0	.0	6.0	6.8	11.9
S	.5	.5	4.0	4.6	1.8	2.0	1.5	1.7	.8	.9	.1	.2	.0	.0	8.7	9.9	12.4
SSW	.5	.5	2.7	3.1	1.1	1.2	.9	1.0	.4	.5	.1	.1	.0	.0	5.7	6.4	11.8
SW	.5	.6	3.3	3.8	1.0	1.2	.6	.7	.3	.4	.0	.0	.0	.0	5.9	6.7	10.7
WSW	.3	.3	2.9	3.3	.8	.9	.5	.5	.2	.2	.1	.1	.0	.0	4.7	5.3	10.7
W	.3	.3	2.7	3.1	1.0	1.2	.7	.8	.5	.6	.1	.2	.0	.0	5.4	6.1	12.2
WNW	.2	.2	2.8	3.2	1.4	1.6	1.3	1.5	.9	1.1	.3	.3	.0	.0	7.0	7.9	13.9
NW	.2	.2	3.5	4.0	2.0	2.2	1.8	2.0	1.0	1.2	.2	.2	.0	.0	8.7	9.9	13.5
NNW	.2	.2	2.4	2.7	1.2	1.4	.9	1.1	.5	.5	.1	.1	.0	.0	5.3	6.0	12.8
CALM	1.5	1.7													1.5	1.7	
TOTAL	6.1	7.0	44.6	50.6	16.9	19.2	12.3	13.9	6.6	7.5	1.4	1.6	.1	.2	88.0	100	11.7

CEILING-VISIBILITY

WIND GRAPH

MSP MINNEAPOLIS ST PAUL, MN

CLASS 1 / NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MSP MINNEAPOLIS ST PAUL, MN

PERIOD: 1948-1978

CLASS 1 / NIGHT

STATION NUMBER: 14922

NO. OBS.: 36620

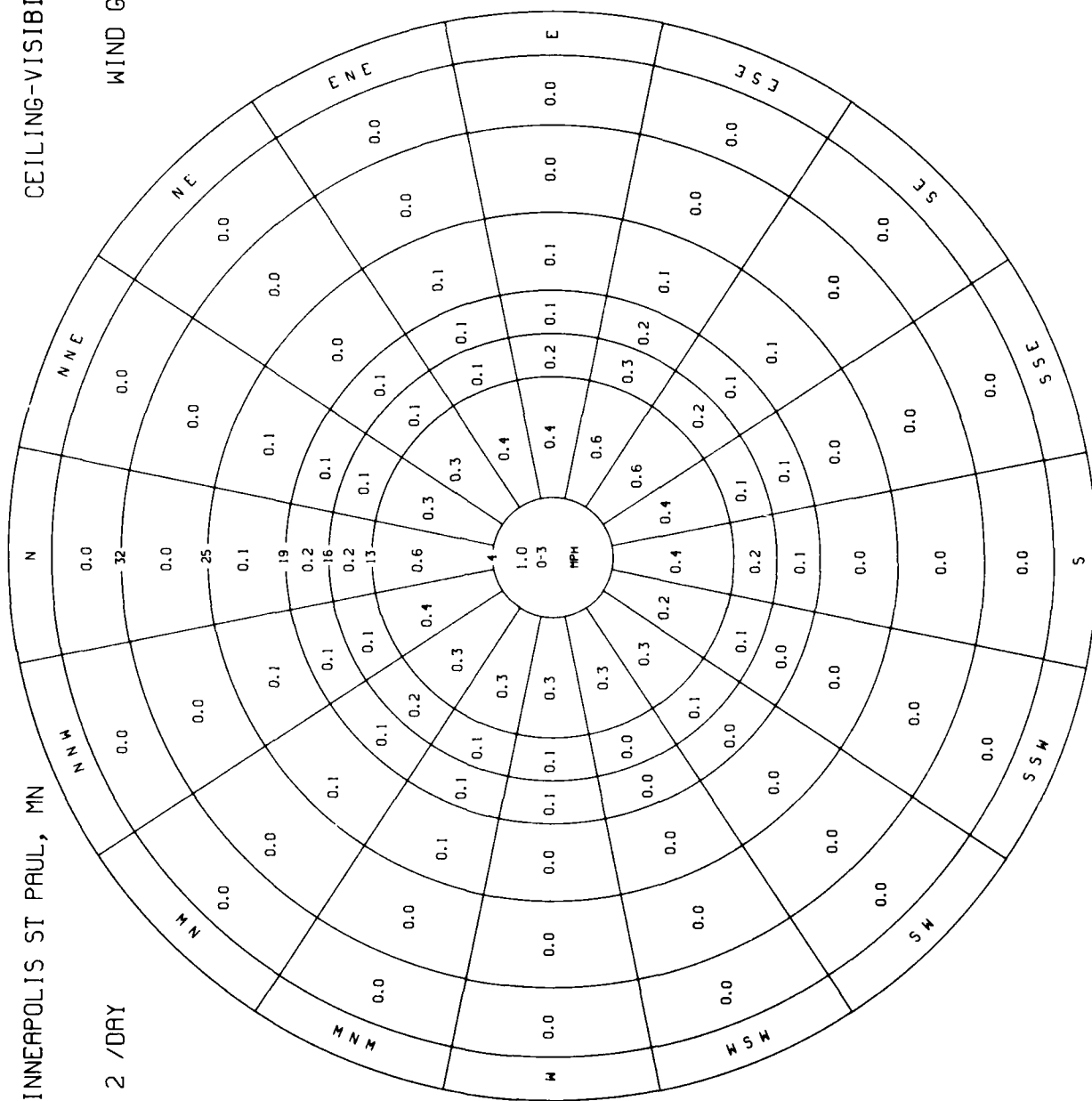
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B		C	D
N	.6	.6	3.9	4.4	1.0	1.1	.6	.7	.2	.3	.0	.0	.0	.0	6.3	7.2	10.0
NNE	.2	.2	1.9	2.2	.4	.5	.3	.3	.1	.1	.0	.0	.0	.0	2.9	3.3	10.0
NE	.3	.3	1.6	1.8	.3	.3	.2	.2	.0	.1	.0	.0	.0	.0	2.4	2.7	9.1
ENE	.3	.3	1.8	2.0	.3	.4	.2	.2	.1	.1	.0	.0	.0	.0	2.7	3.0	9.2
E	.4	.4	2.4	2.8	.4	.5	.2	.3	.1	.1	.0	.0	.0	.0	3.6	4.1	9.2
ESE	.6	.6	3.8	4.3	.6	.7	.3	.3	.1	.1	.0	.0	.0	.0	5.5	6.2	8.9
SE	.9	1.0	5.3	6.1	1.0	1.1	.5	.5	.2	.2	.0	.0	.0	.0	7.9	9.0	9.0
SSE	.6	.6	4.6	5.2	.8	.9	.4	.4	.2	.2	.0	.0	.0	.0	6.5	7.3	9.4
S	1.0	1.1	4.6	5.2	1.1	1.2	.5	.6	.2	.2	.0	.0	.0	.0	7.3	8.3	9.2
SSW	.9	1.0	2.8	3.2	.5	.6	.3	.3	.1	.1	.0	.0	.0	.0	4.6	5.2	8.4
SW	1.2	1.4	3.3	3.8	.4	.5	.2	.2	.1	.1	.0	.0	.0	.0	5.2	5.9	7.4
WSW	.7	.8	3.5	4.0	.3	.4	.1	.1	.1	.1	.0	.0	.0	.0	4.8	5.4	7.8
W	.6	.6	3.1	3.6	.5	.6	.3	.3	.2	.2	.1	.1	.0	.0	4.8	5.4	9.5
WNW	.4	.5	3.3	3.7	1.0	1.2	.8	.9	.5	.5	.1	.1	.0	.0	6.2	7.0	11.4
NW	.4	.5	4.1	4.6	1.6	1.8	1.2	1.4	.7	.8	.1	.2	.0	.0	8.2	9.3	12.0
NNW	.3	.4	2.6	3.0	.9	1.1	.7	.8	.3	.3	.0	.1	.0	.0	5.0	5.6	11.3
CALM	4.5	5.1													4.5	5.1	
TOTAL	13.8	15.6	52.8	59.8	11.3	12.8	6.7	7.6	3.1	3.5	.6	.6	.1	.1	88.2	100	9.1

CEILING-VISIBILITY

WIND GRAPH

MSP MINNEAPOLIS ST PAUL, MN

CLASS 2 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MSP MINNEAPOLIS ST PAUL, MN

PERIOD: 1948-1978

CLASS 2 / DAY

STATION NUMBER: 14922

NO. OBS.: 5886

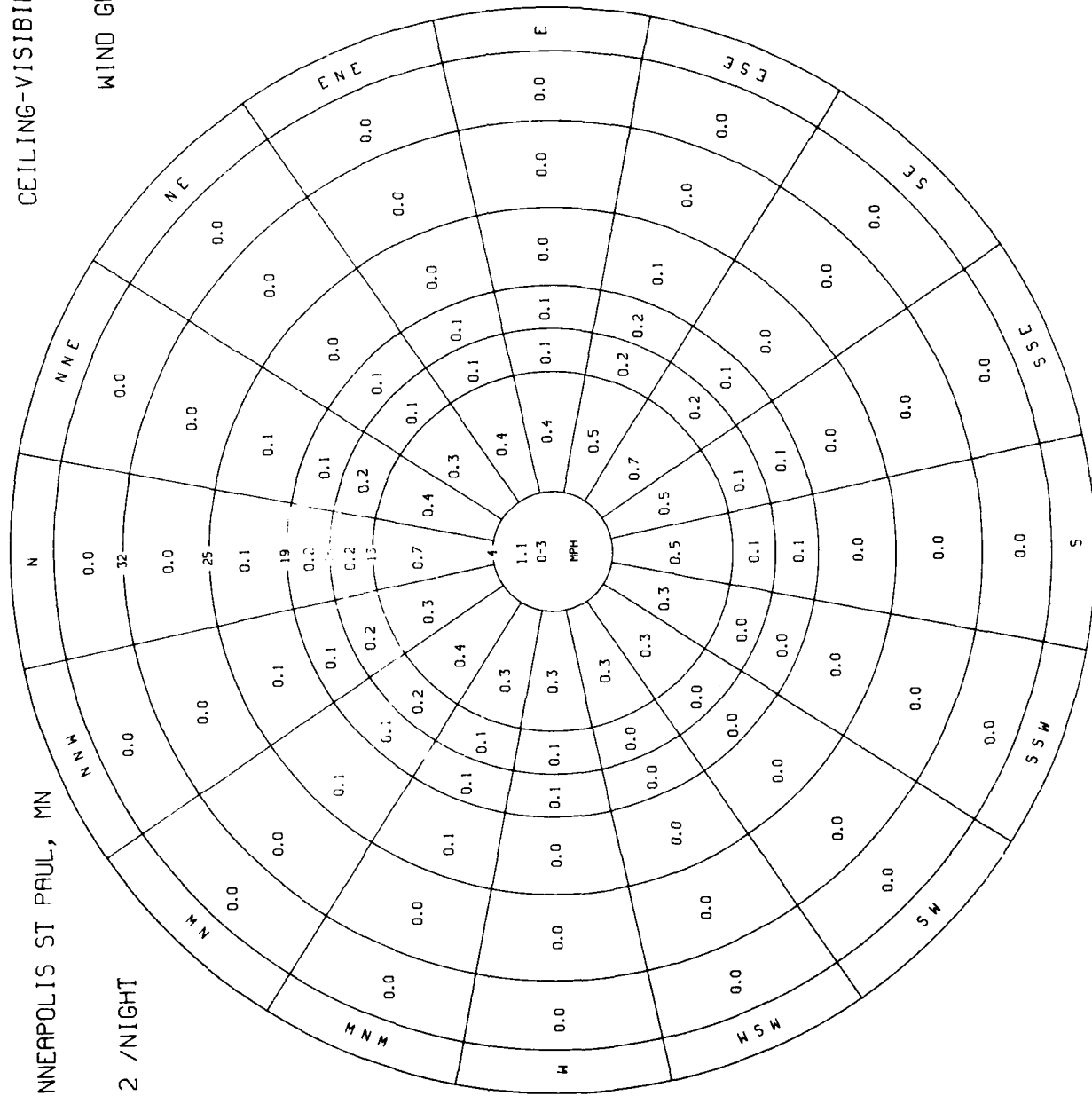
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B		C	D
N	.0	.3	.6	5.2	.2	1.8	.2	1.8	.1	.9	.0	.2	.0	.0	1.2	10.2	12.5
NNE	.0	.3	.3	2.9	.1	1.1	.1	1.0	.1	.6	.0	.3	.0	.0	.7	6.2	12.9
NE	.0	.3	.3	2.8	.1	.9	.1	.7	.0	.4	.0	.0	.0	.0	.6	5.0	11.1
ENE	.0	.4	.4	3.1	.1	1.1	.1	.8	.1	.6	.0	.2	.0	.0	.7	6.2	12.3
E	.0	.3	.4	3.4	.2	1.5	.1	.8	.1	.6	.0	.1	.0	.0	.8	6.8	12.0
ESE	.1	.6	.6	5.3	.3	2.2	.2	1.5	.1	.5	.0	.0	.0	.0	1.2	10.1	11.3
SE	.1	.6	.6	5.4	.2	1.7	.1	1.1	.1	.4	.0	.0	.0	.0	1.1	9.3	10.8
SSE	.0	.4	.4	3.3	.1	1.1	.1	.6	.0	.2	.0	.0	.0	.0	.7	5.6	10.5
S	.1	.5	.4	3.6	.2	1.3	.1	.4	.0	.2	.0	.1	.0	.0	.7	6.0	10.3
SSW	.0	.4	.2	1.9	.1	.4	.0	.4	.0	.0	.0	.1	.0	.0	.4	3.1	9.9
SW	.1	.5	.3	2.4	.1	.5	.0	.2	.0	.1	.0	.0	.0	.0	.4	3.7	9.2
WSW	.0	.3	.3	2.7	.0	.4	.0	.2	.0	.1	.0	.1	.0	.1	.5	3.8	9.9
W	.0	.4	.3	2.4	.1	.5	.1	.5	.0	.2	.0	.1	.0	.0	.5	4.1	11.1
WNW	.0	.3	.3	2.1	.1	.9	.1	.6	.1	.5	.0	.2	.0	.0	.6	4.7	12.9
NW	.0	.4	.3	2.8	.2	1.4	.1	1.2	.1	.7	.0	.1	.0	.0	.8	6.5	12.8
NNW	.0	.2	.4	3.0	.1	1.2	.1	.9	.1	.7	.0	.0	.0	.0	.7	6.0	12.5
CALM	.3	2.5													.3	2.5	
TOTAL	1.0	8.5	6.3	52.2	2.2	18.1	1.5	12.6	.8	6.7	.2	1.5	.0	.3	12.0	100	11.3

CEILING-VISIBILITY

WIND GRAPH

MSP MINNEAPOLIS ST PAUL, MN

CLASS 2 / NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MSP MINNEAPOLIS ST PAUL, MN

PERIOD: 1948-1978

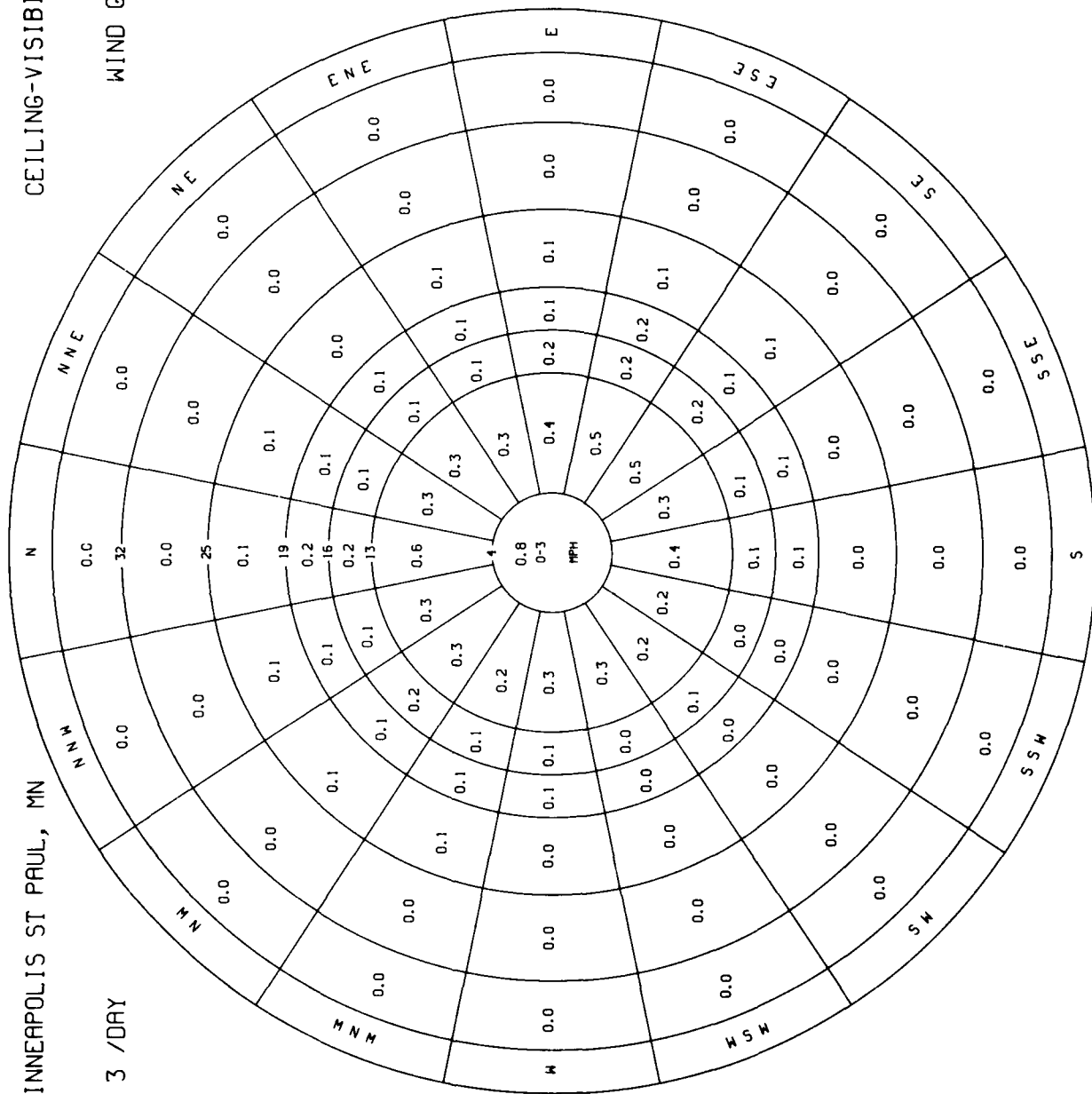
CLASS 2 / NIGHT

STATION NUMBER: 14922

NO. OBS.: 4882

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.1	.5	.7	5.7	.2	2.1	.2	1.6	.1	.9	.0	.1	.0	.0	1.3	10.9	12.0
NNE	.0	.3	.4	3.3	.2	1.4	.1	1.0	.1	.6	.0	.1	.0	.0	.8	6.7	12.3
NE	.0	.2	.3	2.4	.1	.6	.1	.5	.0	.3	.0	.2	.0	.0	.5	4.3	11.7
ENE	.0	.2	.4	3.5	.1	.7	.1	.7	.0	.4	.0	.2	.0	.0	.7	5.7	11.5
E	.1	.5	.4	3.6	.1	1.1	.1	.8	.0	.3	.0	.0	.0	.0	.7	6.3	10.7
ESE	.1	.5	.5	4.7	.2	1.7	.2	1.4	.1	.5	.0	.0	.0	.0	1.0	8.8	11.5
SE	.1	.7	.7	5.8	.2	1.4	.1	.9	.0	.4	.0	.1	.0	.0	1.1	9.3	10.4
SSE	.1	.5	.5	3.8	.1	.9	.1	.7	.0	.2	.0	.0	.0	.0	.7	6.1	10.3
S	.1	.7	.5	3.9	.1	1.1	.1	.5	.0	.1	.0	.0	.0	.0	.7	6.2	9.7
SSW	.1	.5	.3	2.3	.0	.3	.0	.2	.0	.1	.0	.0	.0	.0	.4	3.5	8.9
SW	.0	.4	.3	2.4	.0	.3	.0	.2	.0	.1	.0	.0	.0	.0	.4	3.4	9.4
WSW	.1	.5	.3	2.4	.0	.3	.0	.2	.0	.2	.0	.0	.0	.1	.4	3.6	9.2
W	.1	.6	.3	2.8	.1	.5	.1	.5	.0	.2	.0	.1	.0	.0	.6	4.7	10.4
WNW	.0	.3	.3	2.5	.1	1.1	.1	.5	.1	.6	.0	.3	.0	.0	.6	5.3	12.5
NW	.0	.3	.4	3.3	.2	1.4	.1	.7	.1	.6	.0	.3	.0	.0	.8	6.7	12.4
NNW	.0	.3	.3	2.6	.2	1.4	.1	.9	.1	.5	.0	.2	.0	.0	.7	6.0	12.6
CALM	.3	2.3													.3	2.3	
TOTAL	1.1	9.2	6.5	55.1	1.9	16.5	1.3	11.4	.7	5.9	.2	1.6	.0	.2	11.8	100	10.9

MSP MINNEAPOLIS ST PAUL, MN
 CLASS 3 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: MSP MINNEAPOLIS ST PAUL, MN

CLASS 3 / DAY

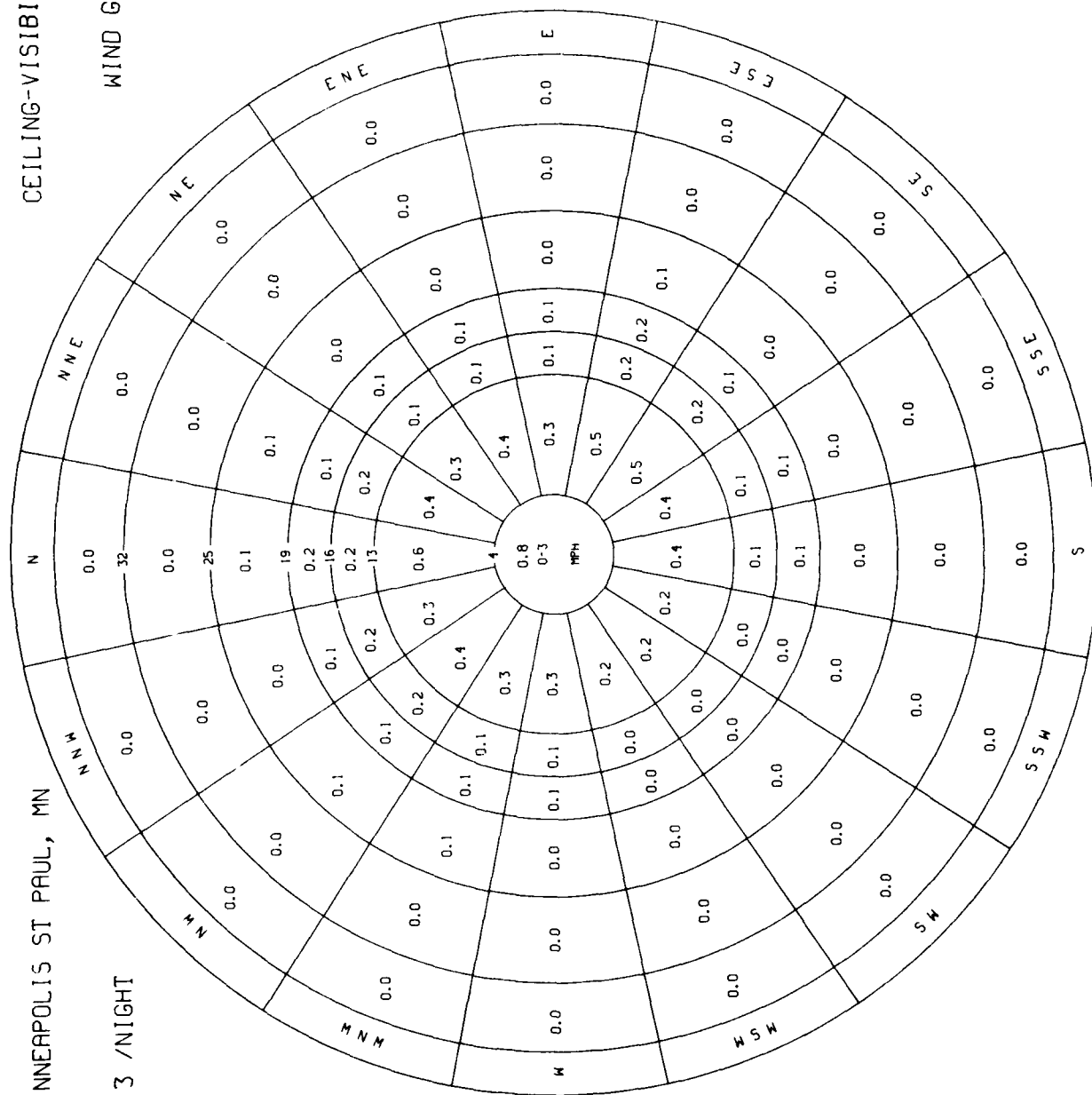
NO. OBS.: 5174

STATION NUMBER: 14922

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.3	.6	5.3	.2	1.9	.2	1.9	.1	.8	.0	.1	.0	.0	1.1 10.3 12.4
NNE	.0	.2	.3	2.9	.1	1.2	.1	1.0	.1	.5	.0	.2	.0	.0	.6 6.1 12.8
NE	.0	.3	.3	2.8	.1	.9	.1	.6	.0	.3	.0	.0	.0	.0	.5 5.0 11.0
ENE	.0	.3	.3	3.2	.1	1.2	.1	.8	.1	.5	.0	.2	.0	.0	.7 6.3 12.2
E	.0	.2	.4	3.4	.2	1.6	.1	.9	.1	.6	.0	.1	.0	.0	.7 6.9 12.3
ESE	.0	.4	.5	4.9	.2	2.4	.2	1.6	.1	.5	.0	.0	.0	.0	1.0 9.8 11.8
SE	.1	.5	.5	5.0	.2	1.8	.1	1.1	.1	.5	.0	.0	.0	.0	.9 9.0 11.2
SSE	.0	.3	.3	3.1	.1	1.2	.1	.7	.0	.3	.0	.0	.0	.0	.6 5.5 10.9
S	.0	.4	.4	3.4	.1	1.3	.1	.5	.0	.2	.0	.1	.0	.0	.6 5.8 10.7
SSW	.0	.3	.2	1.9	.0	.4	.0	.4	.0	.0	.0	.1	.0	.0	.3 3.1 10.2
SW	.0	.4	.2	2.3	.1	.6	.0	.2	.0	.1	.0	.0	.0	.0	.4 3.6 9.6
WSW	.0	.2	.3	2.8	.0	.5	.0	.2	.0	.1	.0	.1	.0	.0	.4 3.9 10.1
W	.0	.4	.3	2.5	.1	.6	.1	.6	.0	.3	.0	.1	.0	.0	.5 4.4 11.1
WNW	.0	.2	.2	2.2	.1	1.0	.1	.7	.1	.5	.0	.2	.0	.0	.5 4.9 12.9
NW	.0	.4	.3	2.9	.2	1.5	.1	1.3	.1	.8	.0	.1	.0	.0	.7 7.0 12.9
NNW	.0	.3	.3	3.1	.1	1.3	.1	.9	.1	.7	.0	.0	.0	.0	.7 6.4 12.4
CALM	.2	2.1													.2 2.1
TOTAL	.8	7.2	5.4	51.7	2.0	19.4	1.4	13.4	.7	6.7	.1	1.3	.0	.2	10.5 100 11.5

MSP MINNEAPOLIS ST PAUL, MN

CLASS 3 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MSP MINNEAPOLIS ST PAUL, MN

PERIOD: 1948-1978

CLASS 3 / NIGHT

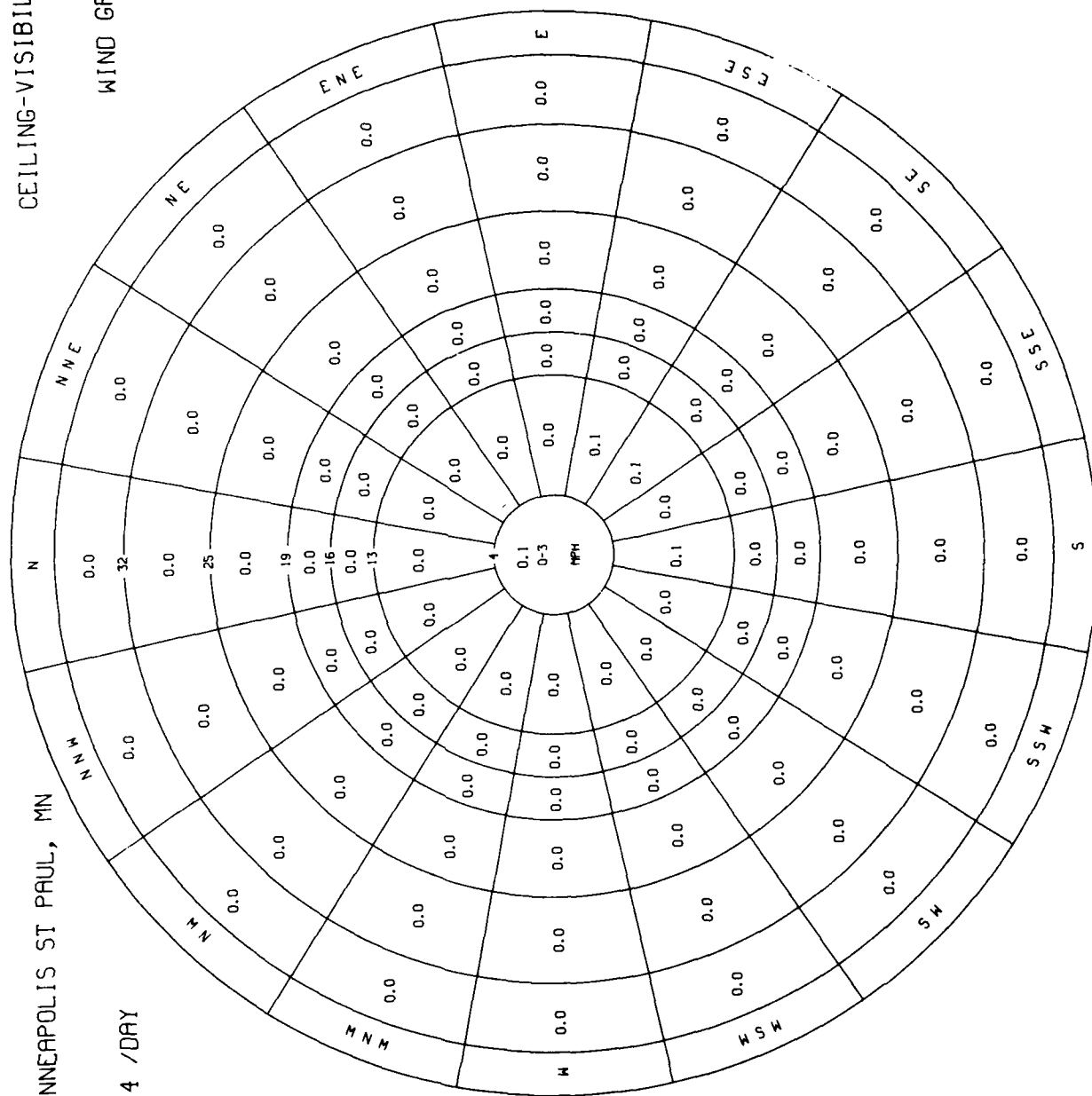
STATION NUMBER: 14922

NO. OBS.: 4278

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.0	.4	.6	5.9	.2	2.3	.2	1.8	.1	.9	.0	.0	.0	.0	1.2	11.4	12.0
NNE	.0	.3	.4	3.5	.2	1.5	.1	1.1	.1	.7	.0	.1	.0	.0	.7	7.1	12.3
NE	.0	.2	.3	2.5	.1	.7	.1	.6	.0	.4	.0	.2	.0	.0	.5	4.5	12.0
ENE	.0	.2	.4	3.5	.1	.8	.1	.7	.0	.4	.0	.2	.0	.0	.6	5.9	11.6
E	.0	.4	.3	3.3	.1	1.2	.1	.8	.0	.4	.0	.0	.0	.0	.6	6.1	11.3
ESE	.0	.4	.5	4.5	.2	1.8	.2	1.5	.1	.5	.0	.0	.0	.0	.9	8.7	11.8
SE	.0	.4	.5	4.9	.2	1.5	.1	1.0	.0	.4	.0	.1	.0	.0	.9	8.3	11.2
SSE	.0	.4	.4	3.5	.1	.9	.1	.8	.0	.3	.0	.0	.0	.0	.6	5.9	10.7
S	.1	.5	.4	3.9	.1	1.2	.1	.5	.0	.1	.0	.0	.0	.0	.6	6.2	10.1
SSW	.0	.4	.2	2.2	.0	.4	.0	.3	.0	.1	.0	.0	.0	.0	.3	3.3	9.5
SW	.0	.3	.2	2.4	.0	.4	.0	.2	.0	.1	.0	.0	.0	.0	.3	3.3	9.4
WSW	.0	.4	.2	2.3	.0	.3	.0	.3	.0	.2	.0	.0	.0	.1	.4	3.5	9.7
W	.1	.6	.3	2.8	.1	.6	.1	.5	.0	.3	.0	.1	.0	.0	.5	4.8	10.4
WNW	.0	.2	.3	2.6	.1	1.3	.1	.6	.1	.6	.0	.3	.0	.0	.6	5.6	12.7
NW	.0	.3	.4	3.5	.2	1.6	.1	.8	.1	.7	.0	.3	.0	.0	.7	7.2	12.6
NNW	.0	.4	.3	2.8	.2	1.5	.1	1.0	.0	.4	.0	.2	.0	.0	.7	6.4	12.4
CALM	.2	1.8													.2	1.8	
TOTAL	.8	7.5	5.6	54.2	1.9	18.0	1.3	12.4	.7	6.4	.2	1.5	.0	.1	10.3	100	11.2

CEILING-VISIBILITY

WIND GRAPH



MSP MINNEAPOLIS ST PAUL, MN

CLASS 4 /DAY

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MSP MINNEAPOLIS ST PAUL, MN

PERIOD: 1948-1978

CLASS 4 / DAY

NO. OBS.: 513

STATION NUMBER: 14922

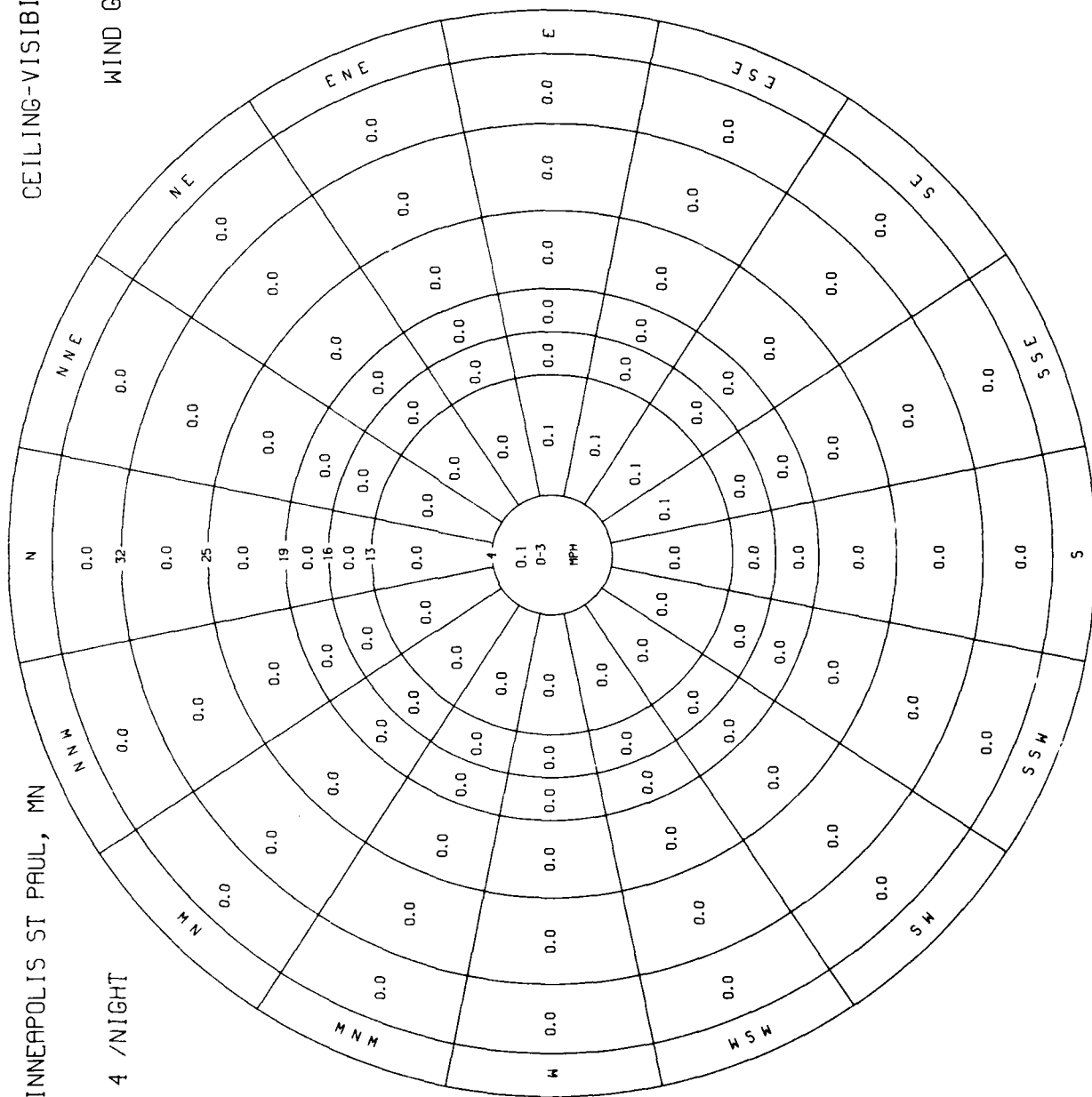
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED			
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B		C	G	
N	.0	.6	.0	4.7	.0	1.9	.0	1.0	.0	1.2	.0	1.0	.0	.0	.0	1	10.3	13.1
NNE	.0	.6	.0	3.5	.0	.6	.0	1.2	.0	1.8	.0	.8	.0	.0	.0	1	8.4	14.1
N E	.0	.2	.0	3.1	.0	1.2	.0	1.2	.0	.8	.0	.0	.0	.0	.0	1	6.4	12.5
ENE	.0	.8	.0	2.9	.0	.6	.0	.8	.0	1.4	.0	.4	.0	.0	.0	1	6.8	12.5
E	.0	.6	.0	2.5	.0	.8	.0	.4	.0	.8	.0	.0	.0	.0	.0	1	5.1	11.5
ESE	.0	.6	.1	7.4	.0	1.8	.0	.6	.0	.2	.0	.0	.0	.0	.0	1	10.5	9.8
SE	.0	.6	.1	7.0	.0	1.6	.0	.8	.0	.0	.0	.0	.0	.0	.0	1	9.9	9.3
SSE	.0	.4	.0	3.7	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.7	8.6
S	.0	1.0	.1	5.5	.0	1.8	.0	.0	.0	.2	.0	.0	.0	.0	.0	1	8.4	8.6
SSW	.0	1.0	.0	2.1	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	3.5	7.7
SW	.0	.8	.0	2.9	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	.0	4.1	8.4
WSW	.0	1.0	.0	2.1	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	3.5	8.2
W	.0	.2	.0	2.1	.0	.0	.0	.2	.0	.0	.0	.4	.0	.2	.0	.0	3.1	12.2
WNW	.0	.8	.0	1.8	.0	.4	.0	.2	.0	.2	.0	.6	.0	.2	.0	.0	4.1	12.7
NW	.0	.4	.0	2.7	.0	.0	.0	.6	.0	.4	.0	.0	.0	.0	.0	.0	4.1	10.6
NNW	.0	.0	.0	2.1	.0	.2	.0	.8	.0	1.0	.0	.0	.0	.0	.0	.0	4.1	13.1
CALM	.0	2.9														.0	2.9	
TOTAL	.1	12.3	.6	56.3	.1	11.5	.1	8.0	.1	8.0	.0	3.1	.0	.8	1.0	100		10.6

CEILING-VISIBILITY

WIND GRAPH

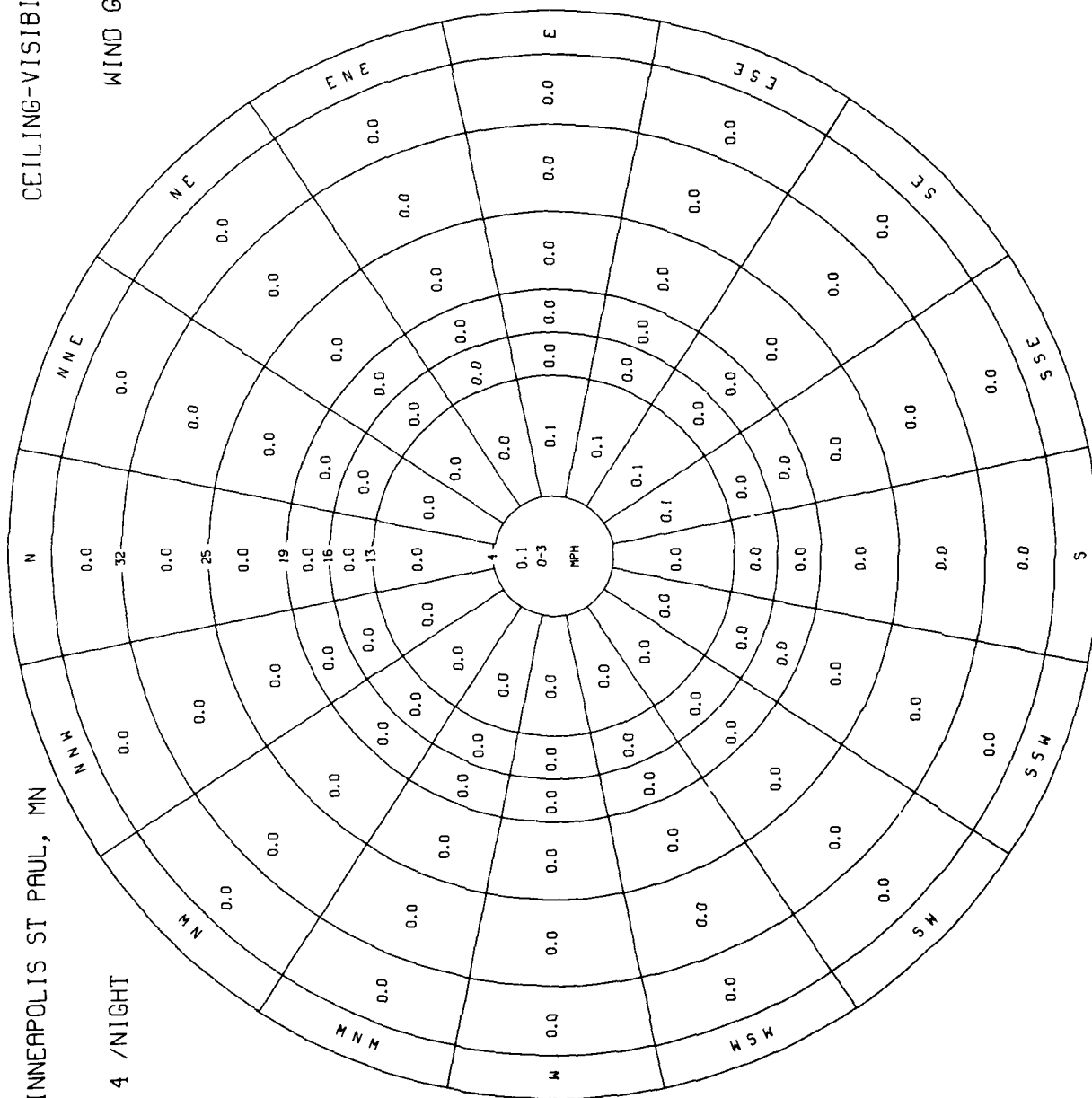
MSP MINNEAPOLIS ST PAUL, MN

CLASS 4 /NIGHT



CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: MSP MINNEAPOLIS ST PAUL, MN

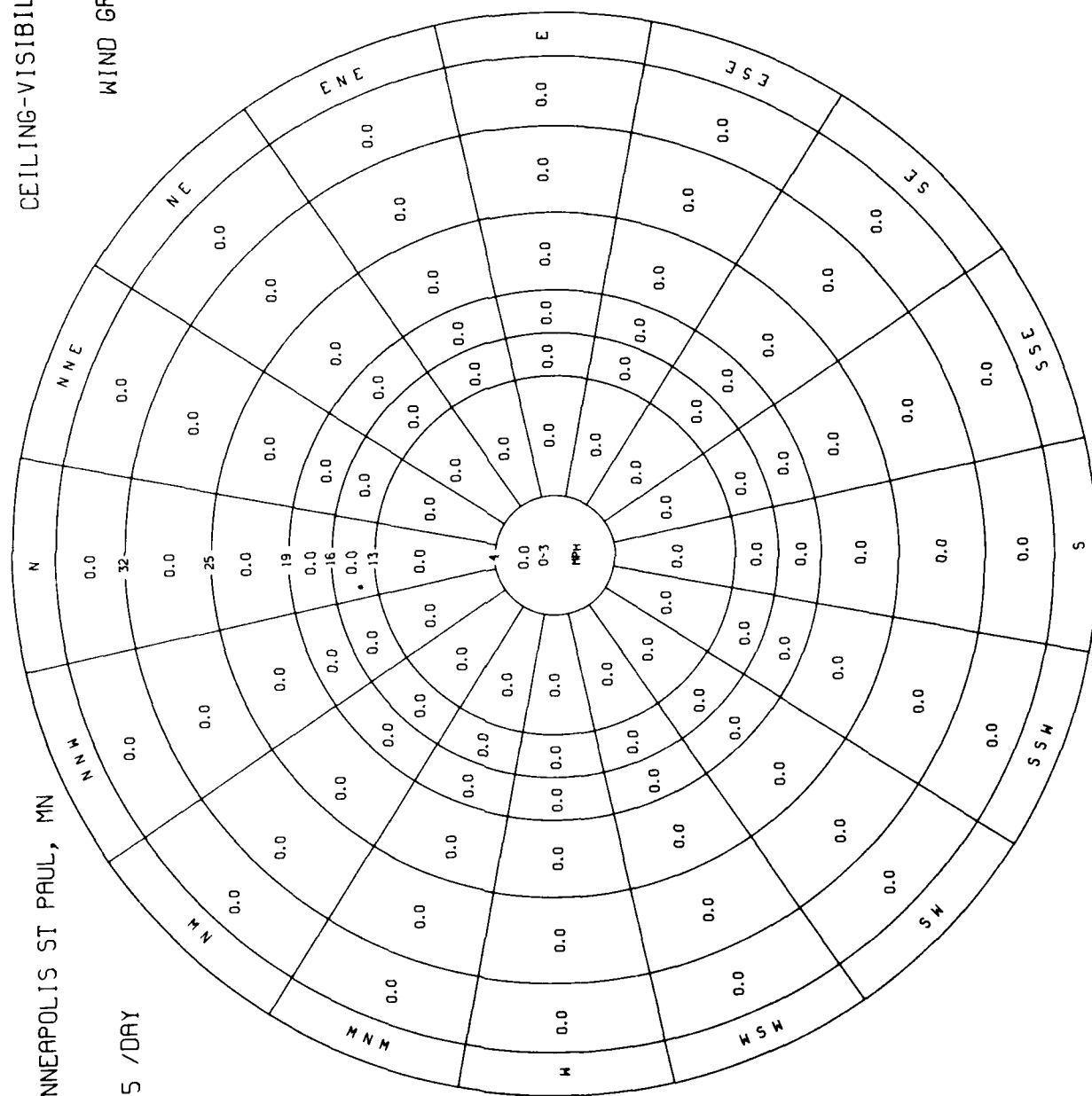
CLASS 4 / NIGHT

NO. OBS.: 402

STATION NUMBER: 14922

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED			
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C	D
N	.0	.0	.0	4.2	.0	1.0	.0	1.0	.0	.7	.0	.7	.0	.0	.0	.1	7.7	13.5
NNE	.0	.5	.0	2.7	.0	1.0	.0	.2	.0	.5	.0	.2	.0	.2	.0	.1	5.5	12.6
NE	.0	.5	.0	2.2	.0	.5	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	3.7	9.6
ENE	.0	.0	.0	3.7	.0	.0	.0	1.2	.0	.2	.0	.0	.0	.0	.0	.1	5.2	10.9
E	.0	1.0	.1	5.7	.0	.5	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.1	8.2	8.3
ESE	.0	.5	.1	6.2	.0	1.7	.0	1.7	.0	.2	.0	.0	.0	.0	.0	.1	10.4	10.7
SE	.0	1.7	.1	12.4	.0	.5	.0	.7	.0	.0	.0	.0	.0	.0	.0	.1	15.4	8.1
SSE	.0	1.0	.1	6.7	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.1	8.2	8.3
S	.0	.7	.0	4.2	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.1	5.5	7.4
SSW	.0	1.0	.0	2.7	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0	6.5
SW	.0	.5	.0	2.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	7.4
WSW	.0	1.0	.0	2.5	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7	6.6
W	.0	.0	.0	3.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	4.0	13.4
WNW	.0	.7	.0	2.2	.0	.2	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	3.7	9.3
NW	.0	.5	.0	1.7	.0	.7	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	3.5	10.3
NNW	.0	.0	.0	1.5	.0	.7	.0	.5	.0	.7	.0	.7	.0	.0	.0	.0	4.2	16.2
CALM	.0	4.0														.0	4.0	
TOTAL	.1	13.7	.6	64.2	.1	8.2	.1	7.0	.0	3.2	.0	3.5	.0	.2	1.0	100		9.5

MSP MINNEAPOLIS ST PAUL, MN
 CLASS 5 /DAY
 CEILING-VISIBILITY
 WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MSP MINNEAPOLIS ST PAUL, MN

PERIOD: 1948-1978

CLASS 5 / DAY

STATION NUMBER: 14922

NO. OBS.: 101

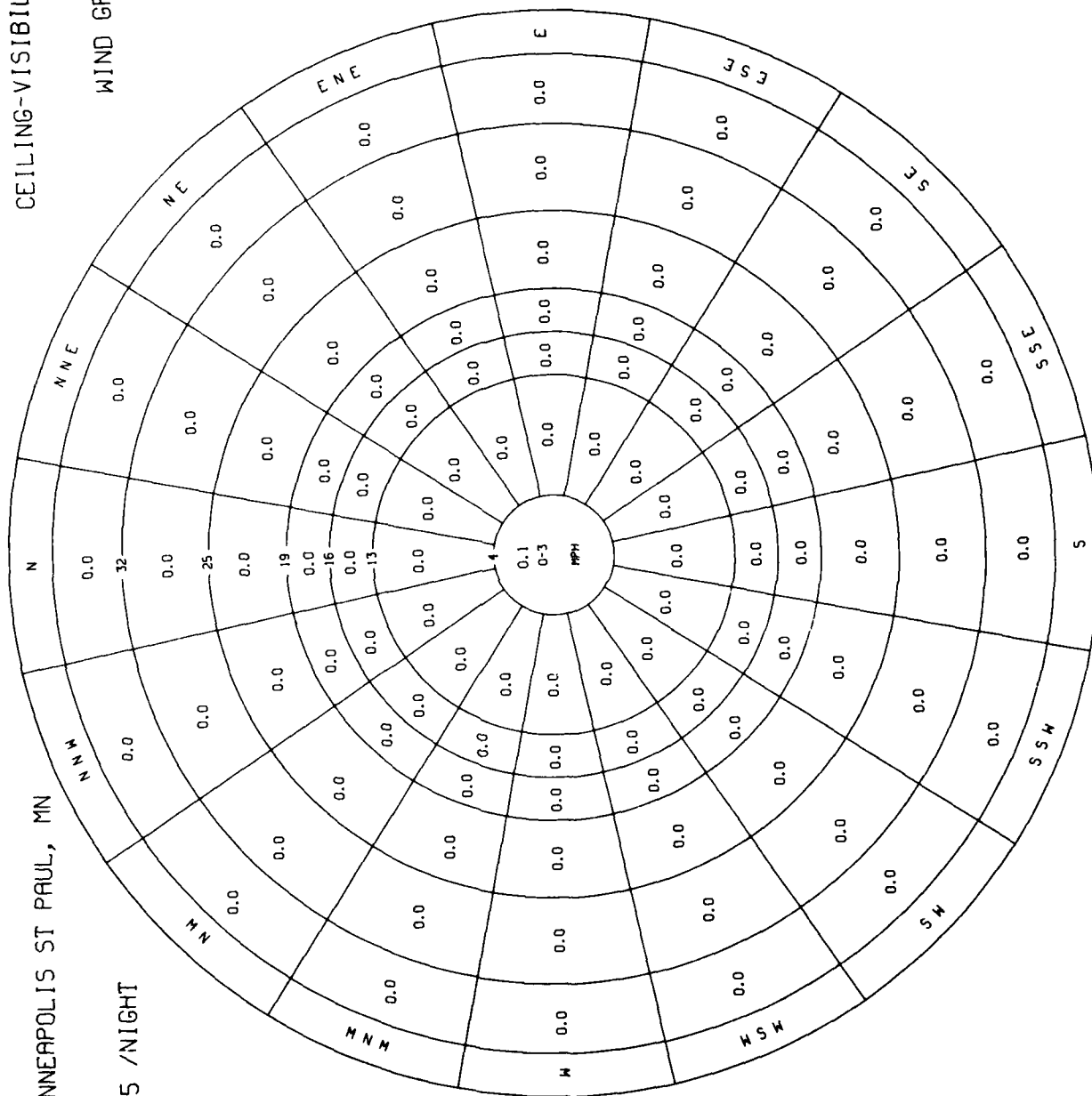
D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.0	.0	.0	5.9	.0	.0	.0	1.0	.0	2.0	.0	1.0	.0	.0	.0	9.9	13.0
NNE	.0	2.0	.0	1.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	4.0	8.8
NE	.0	1.0	.0	2.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	4.0	10.0
ENE	.0	.0	.0	3.0	.0	.0	.0	.0	.0	1.0	.0	2.0	.0	.0	.0	5.9	15.5
E	.0	2.0	.0	4.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	6.9	7.6
ESE	.0	3.0	.0	12.9	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16.8	7.7
SE	.0	2.0	.0	9.9	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	12.9	7.6
SSE	.0	2.0	.0	5.9	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.9	6.5
S	.0	2.0	.0	6.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.9	8.0
SSW	.0	.0	.0	3.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0	9.2
SW	.0	4.0	.0	4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.9	6.0
WSW	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	3.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
WNW	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	2.0	20.5
NW	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	15.0
NNW	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	12.0
CALM	.0	5.0													.0	5.0	
TOTAL	.0	23.8	.1	60.4	.0	4.0	.0	2.0	.0	5.9	.0	4.0	.0	.0	.2	100	8.6

CEILING-VISIBILITY

WIND GRAPH

MSP MINNEAPOLIS ST PAUL, MN

CLASS 5 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MSP MINNEAPOLIS ST PAUL, MN

PERIOD: 1948-1978

CLASS 5 / NIGHT

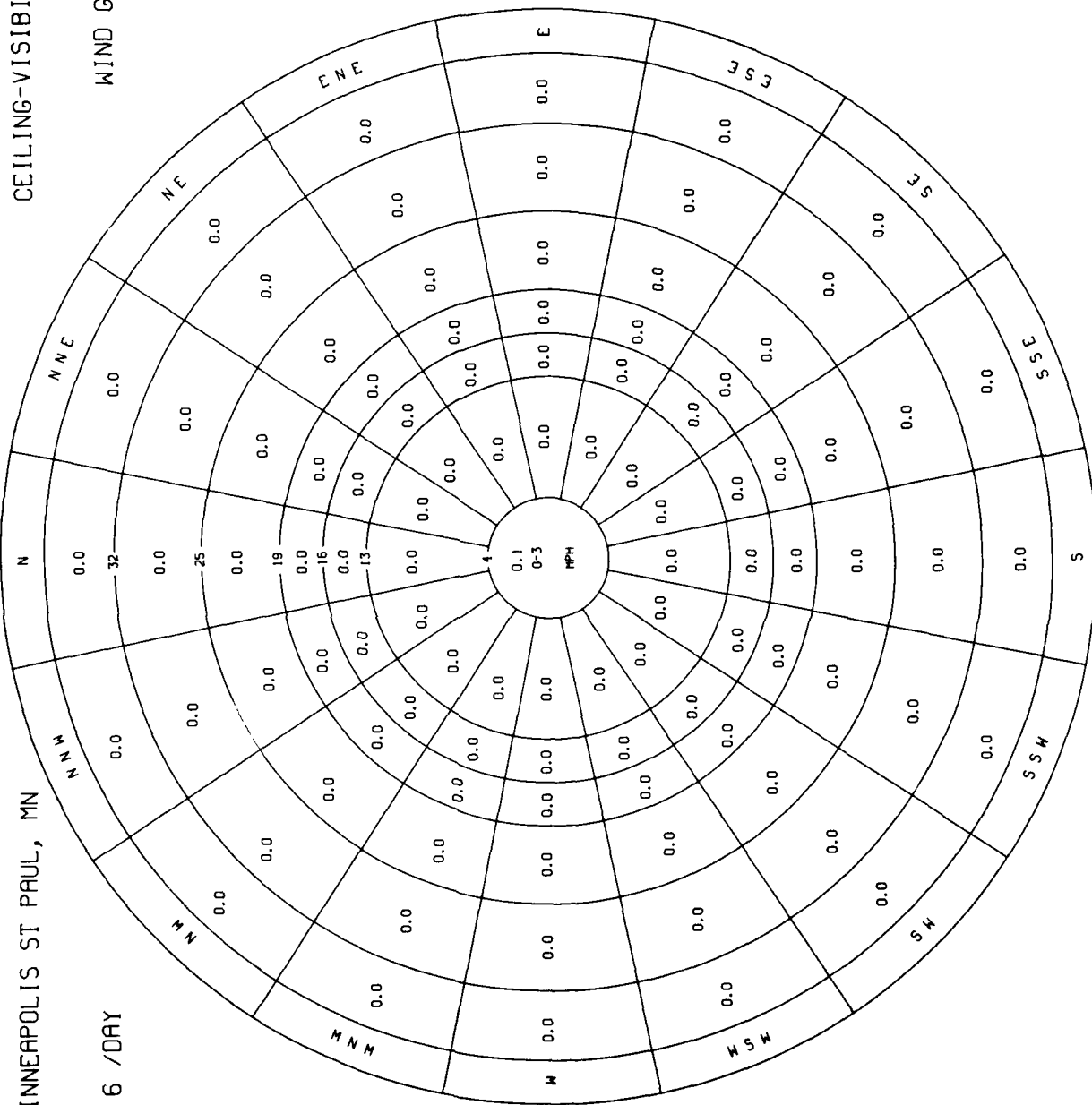
STATION NUMBER: 14922

NO. OBS.: 96

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED			
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C	D
N	.0	.0	.0	5.2	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	6.3	11.2
NNE	.0	1.0	.0	1.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	7.3
NE	.0	2.1	.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.2	5.6
ENE	.0	.0	.0	2.1	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	3.1	13.7
E	.0	2.1	.0	4.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.3	5.7
ESE	.0	.0	.0	6.3	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	7.3	9.2
SE	.0	2.1	.0	11.5	.0	2.1	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	16.7	8.1
SSE	.0	2.1	.0	3.1	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.3	7.3
S	.0	4.2	.0	4.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.3	5.5
SSW	.0	2.1	.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.2	4.2
SW	.0	4.2	.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.3	4.6
WSW	.0	2.1	.0	4.2	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.3	7.0
W	.0	1.0	.0	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	6.0
WNW	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	2.1	16.5
NW	.0	.0	.0	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1	8.5
NNW	.0	.0	.0	1.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1	11.0
CALM	.0	8.3														.0	8.3	
TOTAL	.1	31.3	.1	57.3	.0	6.3	.0	.0	.0	.0	3.1	.0	2.1	.0	.0	.2	100	6.9

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MSP MINNEAPOLIS ST PAUL, MN

PERIOD: 1948-1978

CLASS 6 / DAY

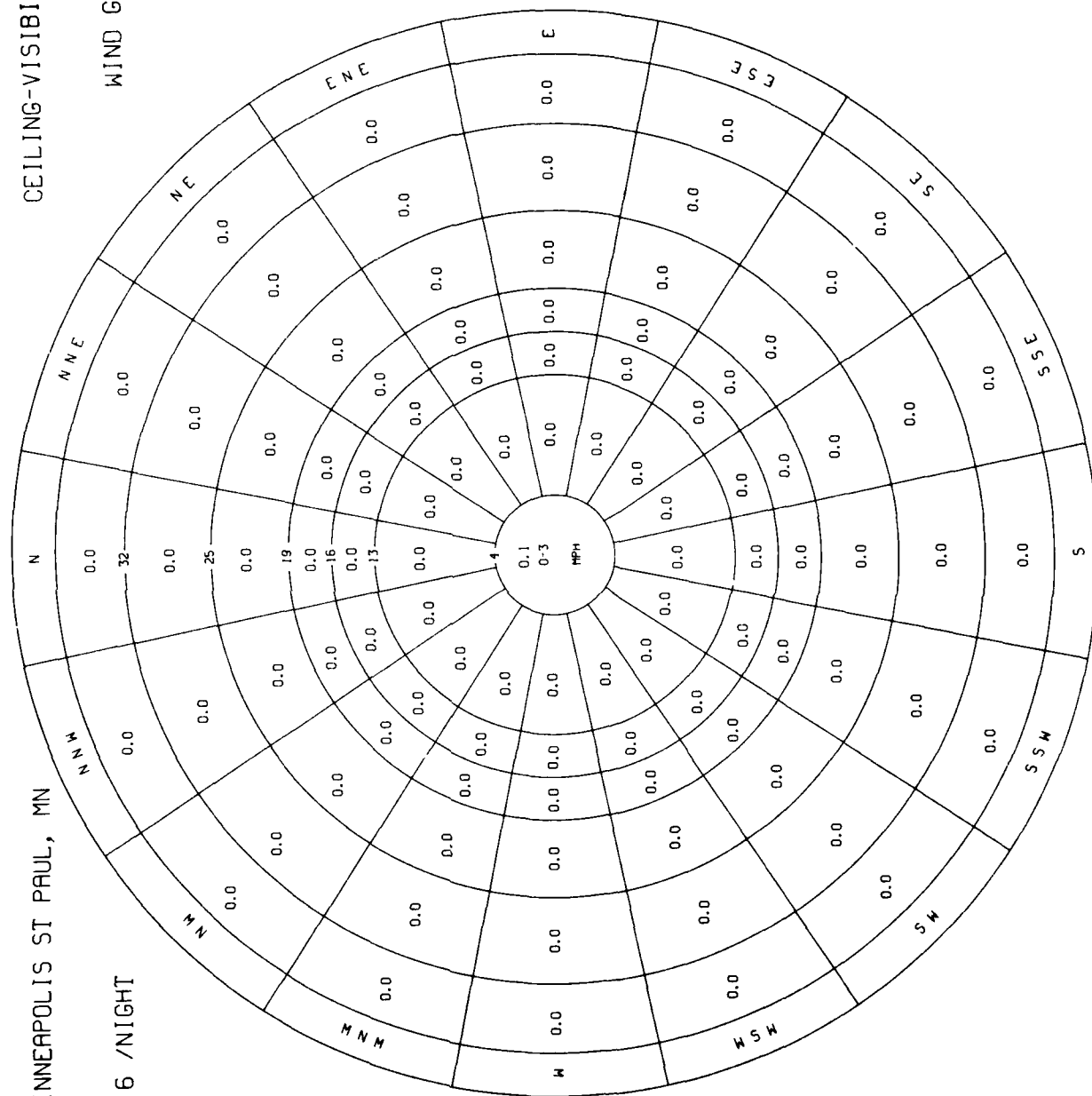
STATION NUMBER: 14922

NO. OBS.: 98

Q I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.0	.0	.0	3.1	.0	.0	.0	.0	.0	1.0	.0	1.0	.0	.0	.0	5.1	15.0
NNE	.0	.0	.0	1.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	2.0	16.0
NE	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	5.0
ENE	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	2.0
E	.0	3.1	.0	6.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.2	5.3
ESE	.0	4.1	.0	10.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14.3	6.3
SE	.0	5.1	.0	12.2	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	18.4	6.1
SSE	.0	4.1	.0	7.1	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	12.2	6.6
S	.0	2.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.1	4.3
SSW	.0	1.0	.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.1	5.7
SW	.0	2.0	.0	4.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.1	4.5
WSW	.0	2.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	5.3
W	.0	1.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	5.5
WNW	.0	1.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	5.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NNW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	15.3													.0	15.3	
TOTAL	.1	41.8	.1	53.1	.0	.0	.0	.0	2.0	.0	2.0	.0	1.0	.0	.0	2	100
																	5.5

CEILING-VISIBILITY

WIND GRAPH



MSP MINNEAPOLIS ST PAUL, MN

CLASS 6 / NIGHT

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: MSP MINNEAPOLIS ST PAUL, MN

CLASS 6 / NIGHT

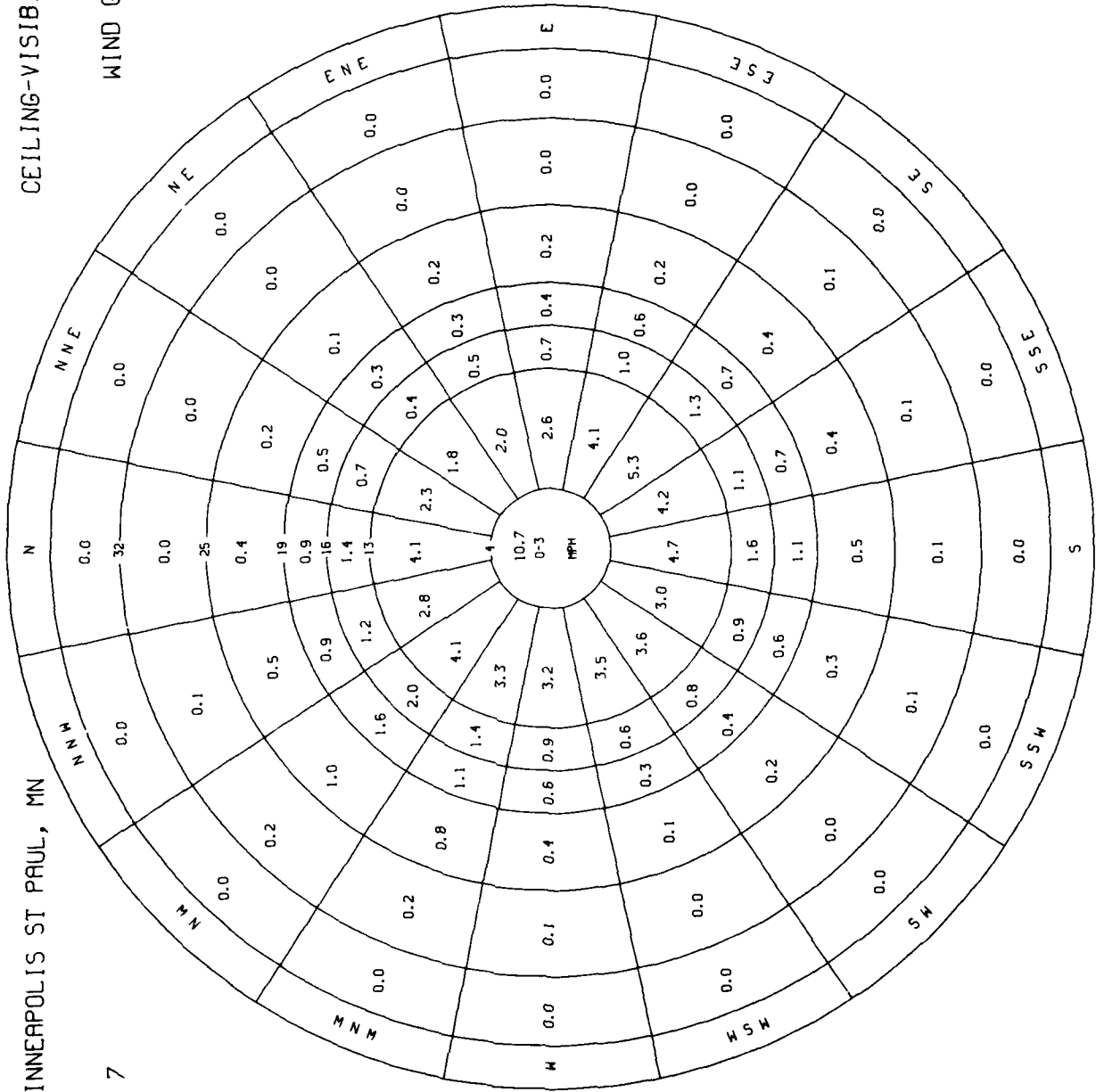
STATION NUMBER: 14922

NO. OBS.: 106

O I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	3.8	.0	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 6.6
NNE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .0
ENE	.0	.0	.0	4.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .0
E	.0	1.9	.0	6.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 4.7
ESE	.0	3.8	.0	3.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 8.5
SE	.0	6.6	.0	10.4	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0 17.9
SSE	.0	.9	.0	5.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 6.6
S	.0	1.9	.0	4.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 6.6
SSW	.0	3.8	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 5.7
SW	.0	.9	.0	5.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 15.1
WSW	.0	1.9	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.8
W	.0	2.8	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 4.7
WNW	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.9
NW	.0	.9	.0	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.8
NNW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .0
CALM	.0	14.2													.0 14.2
TOTAL	1	43.4	.1	54.7	.0	.0	.0	.9	.0	.0	.0	.0	.0	.9	.3 100
															5.4

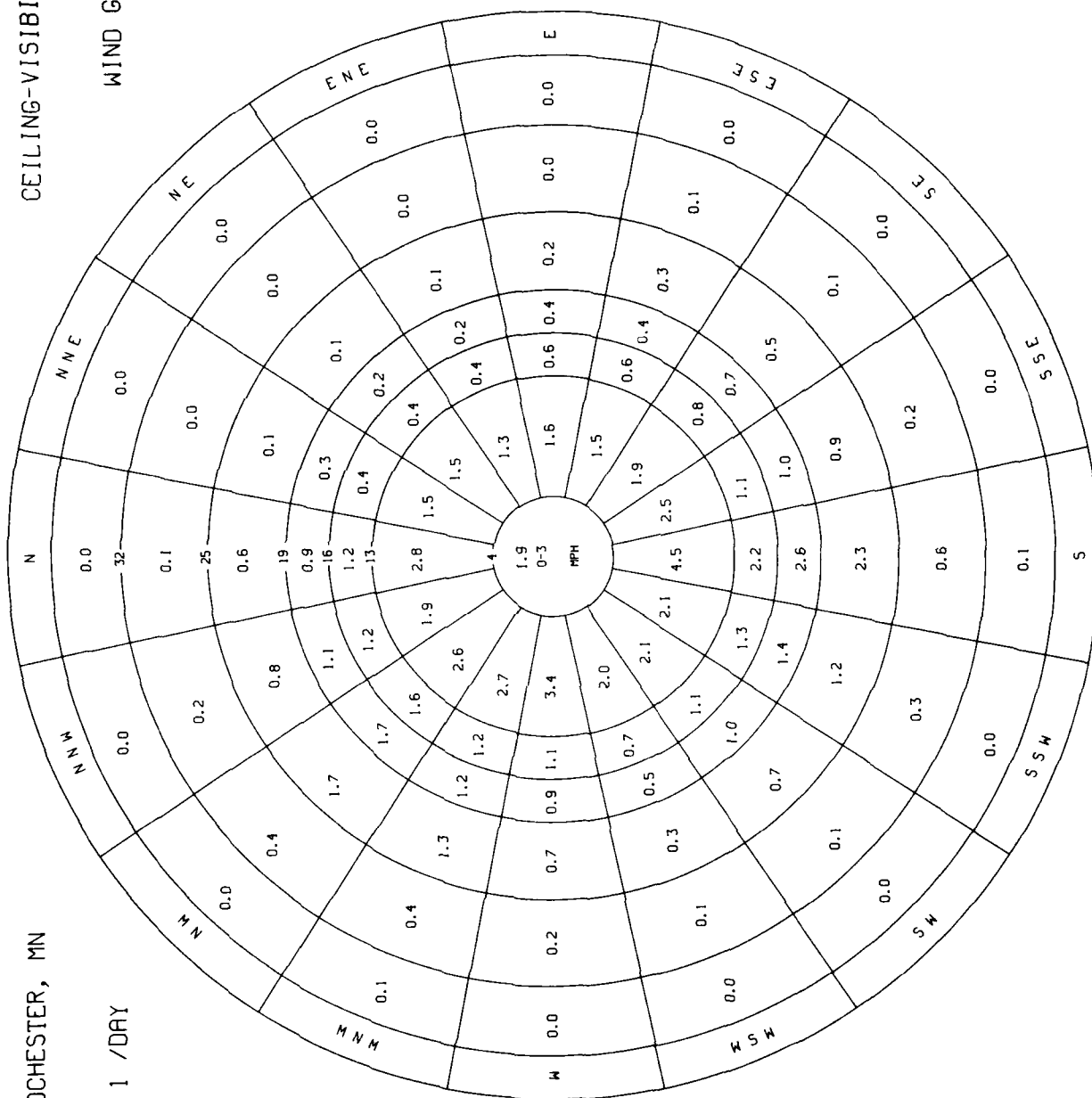
CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1961-1978

STATION NAME: RST ROCHESTER, MN

CLASS 1 / DAY

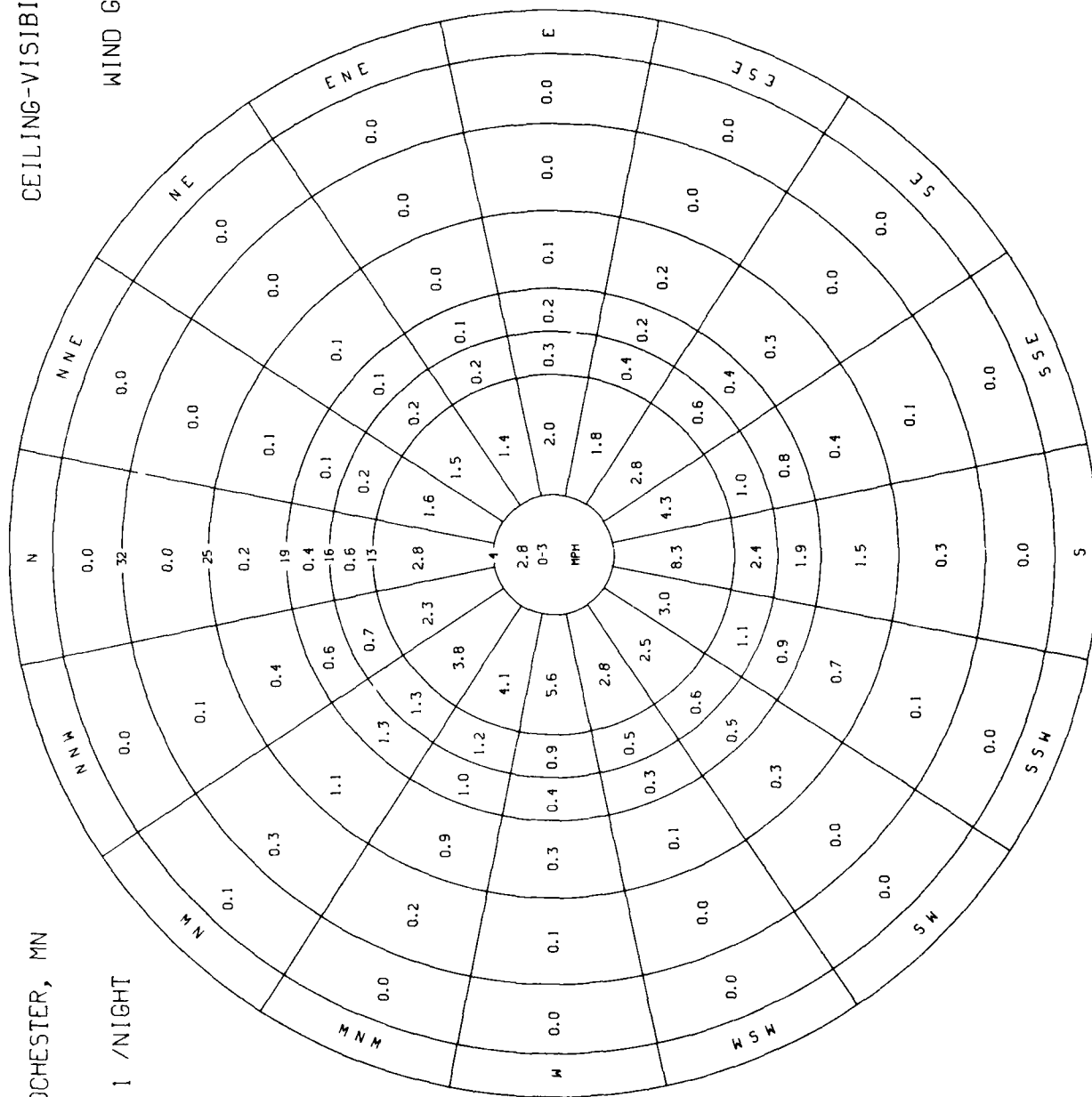
NO. OBS.: 23605

STATION NUMBER: 14925

D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.1	.1	2.8	3.3	1.2	1.4	.9	1.1	.6	.7	.1	.1	.0	.0	5.6	6.8	12.6
NNE	.1	.1	1.5	1.8	.4	.5	.3	.4	.1	.2	.0	.0	.0	.0	2.5	3.0	11.2
NE	.1	.1	1.5	1.8	.4	.5	.2	.2	.1	.1	.0	.0	.0	.0	2.3	2.7	10.6
ENE	.0	.1	1.3	1.6	.4	.4	.2	.2	.1	.1	.0	.0	.0	.0	2.0	2.4	10.7
E	.1	.1	1.6	1.9	.6	.7	.4	.5	.2	.2	.0	.0	.0	.0	2.8	3.4	11.5
ESE	.1	.1	1.5	1.8	.6	.7	.4	.5	.3	.3	.1	.1	.0	.0	2.9	3.5	12.3
SE	.0	.1	1.9	2.2	.8	.9	.7	.9	.5	.6	.1	.1	.0	.0	4.0	4.8	13.2
SSE	.0	.0	2.5	3.0	1.1	1.3	1.0	1.2	.9	1.1	.2	.3	.0	.0	5.7	6.9	14.0
S	.1	.1	4.5	5.4	2.2	2.6	2.6	3.1	2.3	2.8	.6	.8	.1	.1	12.4	14.9	15.0
SSW	.1	.1	2.1	2.5	1.3	1.6	1.4	1.7	1.2	1.5	.3	.4	.0	.0	6.4	7.8	15.1
SW	.1	.1	2.1	2.5	1.1	1.3	1.0	1.2	.7	.8	.1	.1	.0	.0	5.0	6.0	13.9
WSW	.1	.1	2.0	2.4	.7	.9	.5	.7	.3	.4	.1	.1	.0	.0	3.7	4.5	12.6
W	.1	.1	3.4	4.1	1.1	1.3	.9	1.0	.7	.8	.2	.2	.0	.0	6.3	7.6	12.6
WNW	.1	.1	2.7	3.3	1.2	1.5	1.2	1.5	1.3	1.6	.4	.5	.1	.1	7.1	8.6	14.8
NW	.1	.1	2.6	3.1	1.6	1.9	1.7	2.1	1.7	2.1	.4	.5	.0	.0	8.2	9.9	15.3
NNW	.1	.1	1.9	2.3	1.2	1.4	1.1	1.3	.8	1.0	.2	.2	.0	.0	5.3	6.4	14.2
CALM	.7	.9													.7	.9	
TOTAL	1.9	2.3	35.8	43.2	15.7	19.0	14.5	17.5	11.7	14.2	2.8	3.4	.3	.4	82.9	100	13.6

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1961-1978

STATION NAME: RST ROCHESTER, MN

CLASS 1 / NIGHT

NO. OBS.: 20019

STATION NUMBER: 14925

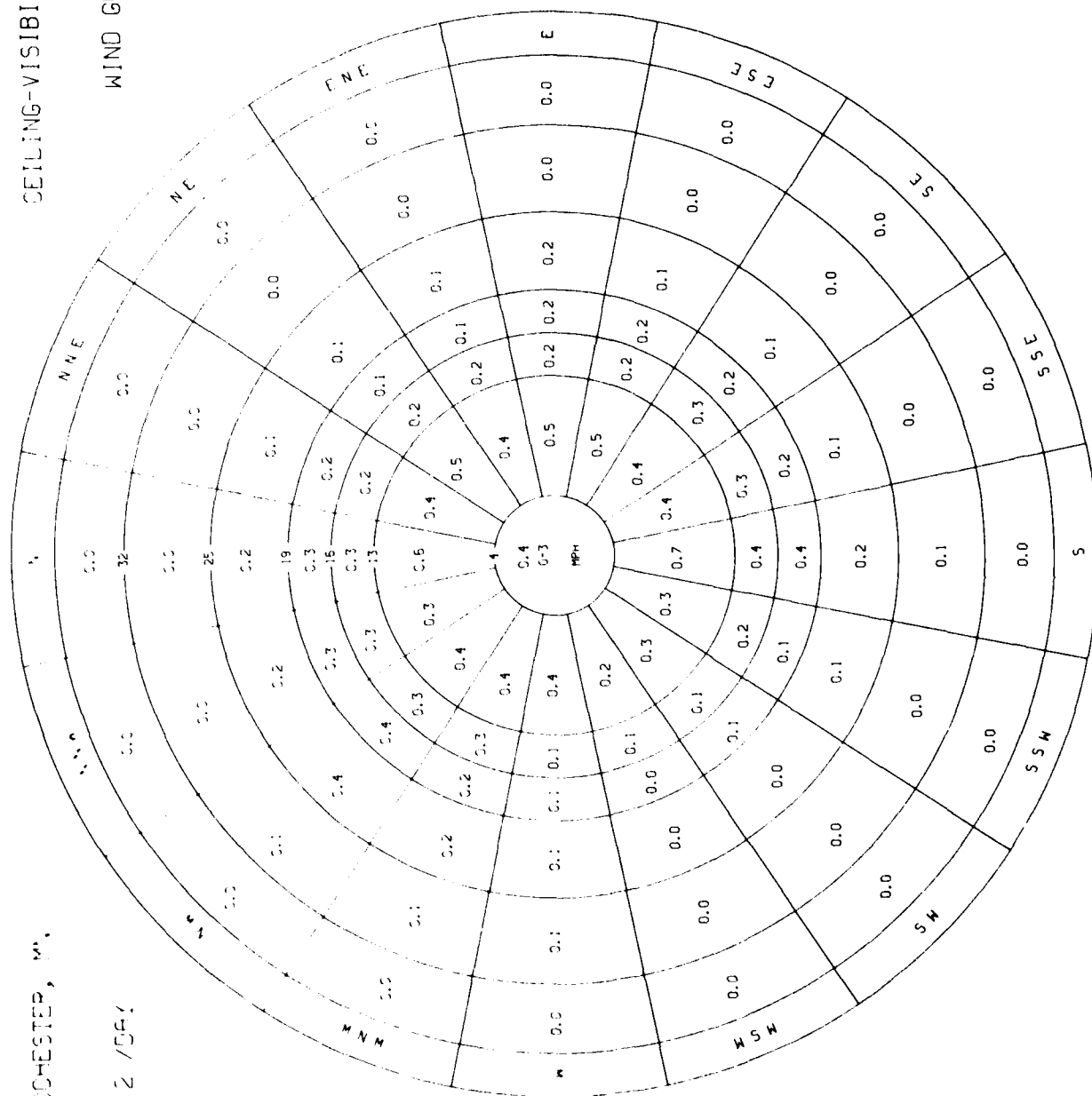
D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.2	.2	2.8	3.4	.6	.7	.4	.5	.2	.3	.0	.1	.0	.0	4.3	5.2	10.6
NNE	.1	.1	1.6	1.9	.2	.3	.1	.1	.1	.1	.0	.0	.0	.0	2.0	2.5	9.1
NE	.1	.1	1.5	1.9	.2	.2	.1	.2	.1	.1	.0	.0	.0	.0	2.1	2.5	9.2
ENE	.1	.1	1.4	1.7	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	1.8	2.2	8.8
E	.1	.1	2.0	2.3	.3	.4	.2	.3	.1	.1	.0	.0	.0	.0	2.7	3.2	9.4
ESE	.0	.0	1.8	2.2	.4	.5	.2	.2	.2	.2	.0	.0	.0	.0	2.6	3.2	10.6
SE	.1	.1	2.8	3.3	.6	.8	.4	.5	.3	.3	.0	.0	.0	.0	4.2	5.1	11.0
SSE	.0	.0	4.3	5.1	1.0	1.2	.8	.9	.4	.5	.1	.1	.0	.0	6.6	8.0	11.5
S	.1	.1	8.3	10.0	2.4	2.9	1.9	2.3	1.5	1.8	.3	.3	.0	.0	14.5	17.4	12.4
SSW	.0	.0	3.0	3.6	1.1	1.3	.9	1.1	.7	.8	.1	.2	.0	.0	5.8	7.0	13.0
SW	.1	.1	2.5	3.0	.6	.8	.5	.6	.3	.4	.0	.0	.0	.0	4.1	4.9	11.6
WSW	.1	.1	2.8	3.4	.5	.6	.3	.4	.1	.1	.0	.0	.0	.0	3.8	4.6	10.2
W	.2	.2	5.6	6.7	.9	1.1	.4	.5	.3	.3	.1	.1	.0	.0	7.5	9.0	10.0
WNW	.2	.2	4.1	5.0	1.2	1.5	1.0	1.2	.9	1.1	.2	.3	.0	.0	7.7	9.3	12.5
NW	.1	.1	3.8	4.6	1.3	1.6	1.3	1.5	1.1	1.3	.3	.3	.1	.1	8.0	9.6	13.4
NNW	.1	.1	2.3	2.7	.7	.8	.6	.7	.4	.5	.1	.1	.0	.0	4.2	5.0	12.0
CALM	1.2	1.5													1.2	1.5	
TOTAL	2.8	3.3	50.6	60.9	12.3	14.8	9.3	11.1	6.7	8.1	1.3	1.6	.1	.2	83.1	100	11.4

CEILING-VISIBILITY

WIND GRAPH

RST ROCHESTER, N.Y.

CLASS 2 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1961-1978

STATION NAME: RST ROCHESTER, MN

CLASS 2 / DAY

NO. OBS.: 4882

STATION NUMBER: 14925

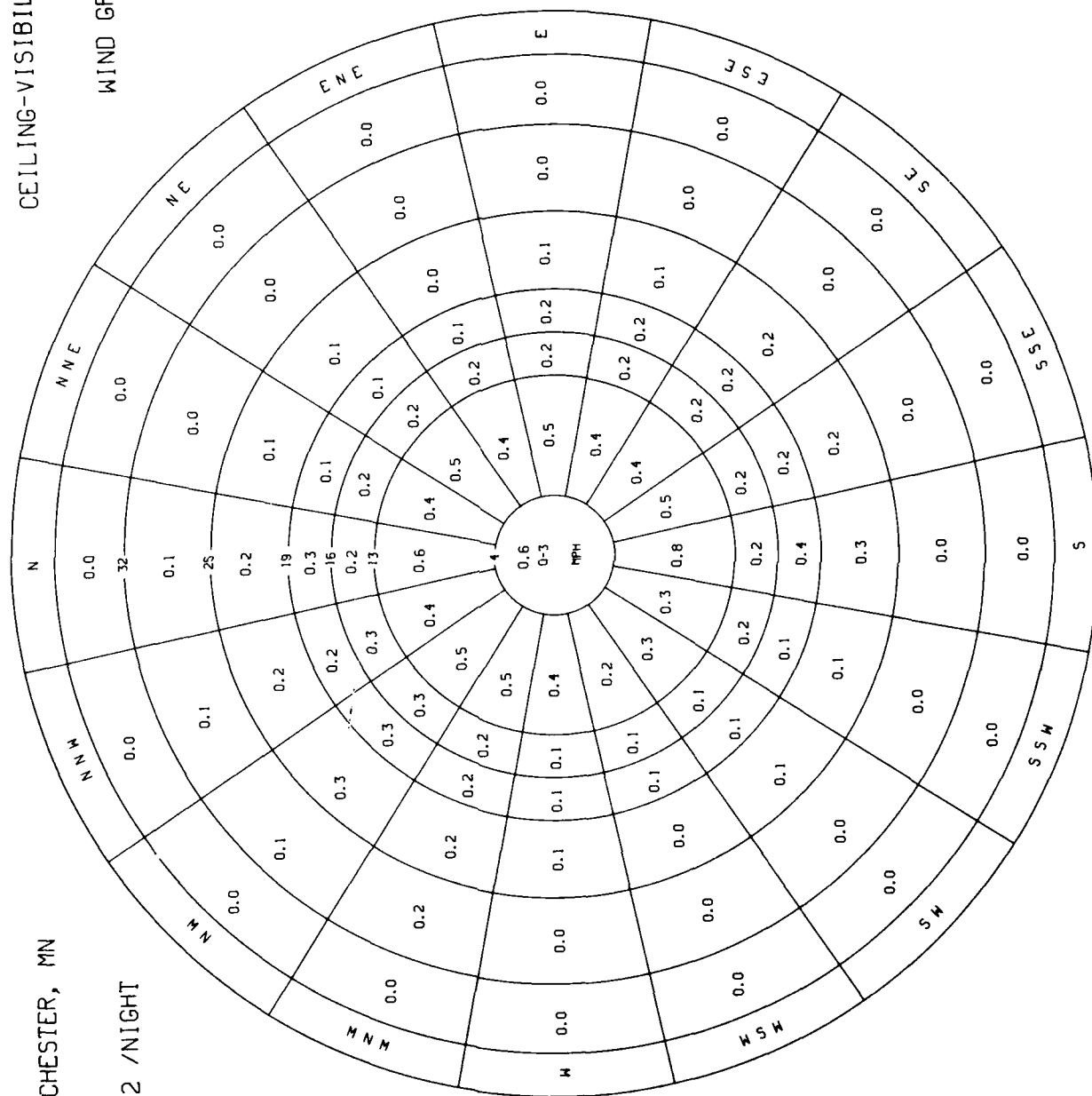
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.1	.6	3.5	.3	1.8	.3	1.9	.2	1.4	.0	.1	.0	.1	1.5 9.0
NNE	.0	.2	.4	2.3	.2	1.2	.2	1.0	.1	.5	.0	.2	.0	.0	.9 5.5
NE	.0	.0	.5	2.8	.2	1.1	.1	.7	.1	.4	.0	.1	.0	.0	.9 5.1
ENE	.0	.0	.4	2.2	.2	1.2	.1	.7	.1	.3	.0	.1	.0	.0	.8 4.6
E	.0	.1	.5	2.9	.2	1.4	.2	1.1	.2	.9	.0	.0	.0	.0	1.1 6.5
ESE	.0	.1	.5	2.7	.2	1.3	.2	1.4	.1	.8	.0	.2	.0	.0	1.1 6.6
SE	.0	.0	.4	2.6	.3	1.7	.2	1.4	.1	.8	.0	.2	.0	.0	1.2 6.7
SSE	.0	.1	.4	2.6	.3	1.5	.2	1.4	.1	.8	.0	.1	.0	.0	1.1 6.5
S	.0	.2	.7	3.9	.4	2.3	.4	2.2	.2	1.3	.1	.3	.0	.0	1.7 10.2
SSW	.0	.1	.3	1.7	.2	1.1	.1	.8	.1	.5	.0	.1	.0	.0	.7 4.3
SW	.0	.0	.3	1.5	.1	.7	.1	.4	.0	.2	.0	.1	.0	.0	.5 2.9
WSW	.0	.1	.2	1.3	.1	.4	.0	.3	.0	.2	.0	.1	.0	.0	.4 2.3
W	.0	.1	.4	2.1	.1	.9	.1	.7	.1	.7	.1	.4	.0	.2	.9 5.0
WNW	.0	.1	.4	2.2	.3	1.5	.2	1.2	.2	1.3	.1	.7	.0	.1	1.2 7.0
NW	.0	.1	.4	2.4	.3	2.0	.4	2.3	.4	2.2	.1	.7	.0	.1	1.7 9.8
NNW	.0	.1	.3	2.0	.3	1.5	.3	1.6	.2	1.3	.0	.2	.0	.0	1.2 6.8
CALM	.2	1.2													.2 1.2
TOTAL	.4	2.5	6.6	38.7	3.7	21.6	3.3	19.0	2.4	13.7	.6	3.7	.1	.7	17.1 100

CEILING-VISIBILITY

WIND GRAPH

RST ROCHESTER, MN

CLASS 2 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: RST ROCHESTER, MN

PERIOD: 1961-1978

CLASS 2 / NIGHT

STATION NUMBER: 14925

NO. OBS.: 4074

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.1	.6	3.8	.2	1.4	.3	1.7	.2	1.1	.1	.3	.0	.0	1.4 8.4
NNE	.0	.1	.4	2.2	.2	.9	.1	.6	.1	.7	.0	.1	.0	.0	.8 4.7
N	.0	.1	.5	3.0	.2	1.1	.1	.4	.1	.5	.0	.1	.0	.0	.9 5.2
ENE	.0	.1	.4	2.1	.2	1.0	.1	.8	.0	.3	.0	.1	.0	.0	.7 4.3
E	.0	.1	.5	3.0	.2	1.2	.2	.9	.1	.8	.0	.0	.0	.0	1.0 6.0
ESE	.0	.1	.4	2.6	.2	1.3	.2	1.1	.1	.8	.0	.1	.0	.0	1.0 6.1
SE	.0	.0	.4	2.7	.2	1.2	.2	1.3	.2	.9	.0	.2	.0	.0	1.1 6.3
SSE	.0	.0	.5	2.7	.2	1.0	.2	1.3	.2	.9	.0	.0	.0	.0	1.0 6.1
S	.0	.1	.8	5.0	.2	1.4	.4	2.1	.3	1.7	.0	.2	.0	.0	1.8 10.7
SSW	.0	.1	.3	1.7	.2	.9	.1	.9	.1	.7	.0	.1	.0	.0	.7 4.4
SW	.0	.1	.3	2.0	.1	.5	.1	.4	.1	.3	.0	.1	.0	.0	.6 3.4
WSW	.0	.1	.2	1.4	.1	.5	.1	.3	.0	.1	.0	.0	.0	.0	.4 2.5
W	.0	.2	.4	2.6	.1	.8	.1	.7	.1	.5	.0	.2	.0	.2	.9 5.1
WNW	.0	.1	.5	3.0	.2	1.2	.2	1.3	.2	1.4	.2	.9	.0	.2	1.4 8.2
NW	.0	.2	.5	3.1	.3	1.9	.3	1.9	.3	1.9	.1	.5	.0	.2	1.6 9.7
NNW	.0	.1	.4	2.4	.3	1.6	.2	1.4	.2	1.3	.1	.3	.0	.0	1.2 7.2
CALM	.3	1.8													.3 1.8
TOTAL	.6	3.5	7.3	43.2	3.0	18.0	2.9	17.2	2.4	14.0	.6	3.3	.1	.8	16.9 100 13.4

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: RST ROCHESTER, MN

PERIOD: 1961-1978

CLASS 3 / DAY

STATION NUMBER: 14925

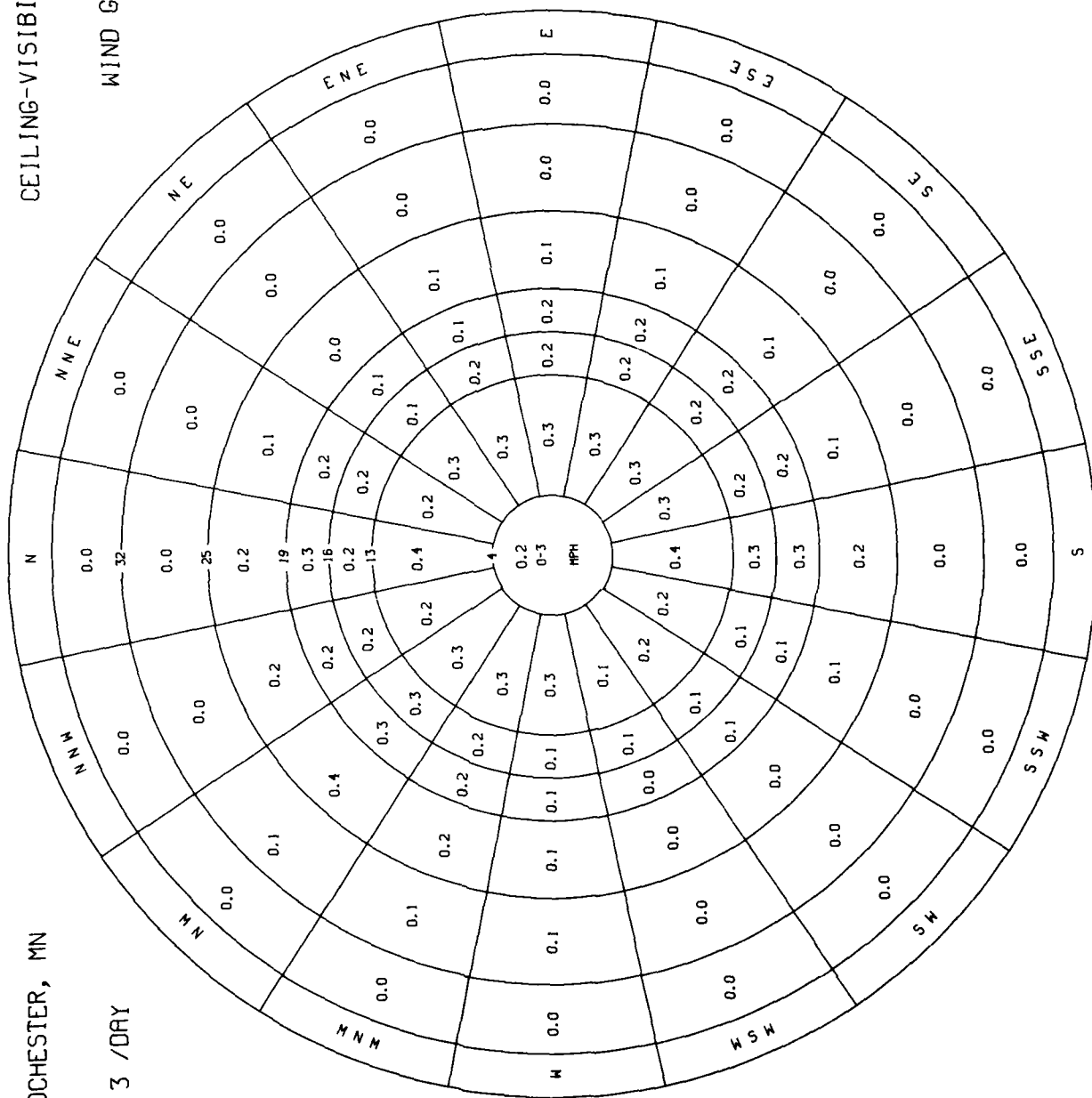
NO. OBS.: 3669

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.0	.1	.4	3.4	.2	1.9	.3	2.1	.2	1.5	.0	.1	.0	.1	1.2	8.9	14.4
NNE	.0	.1	.2	1.9	.2	1.3	.2	1.2	.1	.5	.0	.1	.0	.0	.7	5.2	13.8
NNE	.0	.0	.3	2.5	.1	1.0	.1	.6	.0	.4	.0	.1	.0	.0	.6	4.7	12.5
ENE	.0	.0	.3	2.0	.2	1.3	.1	.8	.1	.4	.0	.1	.0	.0	.6	4.7	13.2
E	.0	.0	.3	2.6	.2	1.4	.2	1.2	.1	.9	.0	.1	.0	.0	.8	6.2	13.8
ESE	.0	.1	.3	2.2	.2	1.4	.2	1.4	.1	.9	.0	.2	.0	.0	.8	6.2	14.2
SE	.0	.0	.3	2.2	.2	1.6	.2	1.6	.1	.9	.0	.2	.0	.0	.8	6.5	14.9
SSE	.0	.1	.3	2.1	.2	1.4	.2	1.6	.1	1.0	.0	.1	.0	.0	.8	6.2	14.5
S	.0	.1	.4	3.1	.3	2.6	.3	2.3	.2	1.3	.0	.3	.0	.0	1.2	9.6	14.5
SSW	.0	.1	.2	1.4	.1	1.1	.1	.9	.1	.6	.0	.1	.0	.0	.5	4.3	14.6
SW	.0	.0	.2	1.4	.1	.8	.1	.4	.0	.3	.0	.1	.0	.0	.4	3.1	13.2
WSW	.0	.1	.1	1.1	.1	.5	.0	.3	.0	.2	.0	.1	.0	.0	.3	2.3	12.8
W	.0	.1	.3	2.3	.1	1.0	.1	.8	.1	.9	.1	.5	.0	.1	.7	5.6	14.8
WNW	.0	.0	.3	2.2	.2	1.6	.2	1.5	.2	1.5	.1	.8	.0	.0	1.0	7.7	16.2
NW	.0	.0	.3	2.3	.3	2.1	.3	2.7	.4	2.8	.1	.9	.0	.1	1.4	10.9	17.0
NNW	.0	.1	.2	1.8	.2	1.5	.2	1.8	.2	1.4	.0	.3	.0	.0	.9	6.9	15.6
CALM	.1	.9													.1	.9	
TOTAL	.2	1.7	4.4	34.4	2.9	22.6	2.7	21.3	2.0	15.5	.5	4.1	.1	.5	12.9	100	14.6

CEILING-VISIBILITY WIND GRAPH

RST ROCHESTER, MN

CLASS 3 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: RST ROCHESTER, MN

PERIOD: 1961-1978

CLASS 3 / DAY

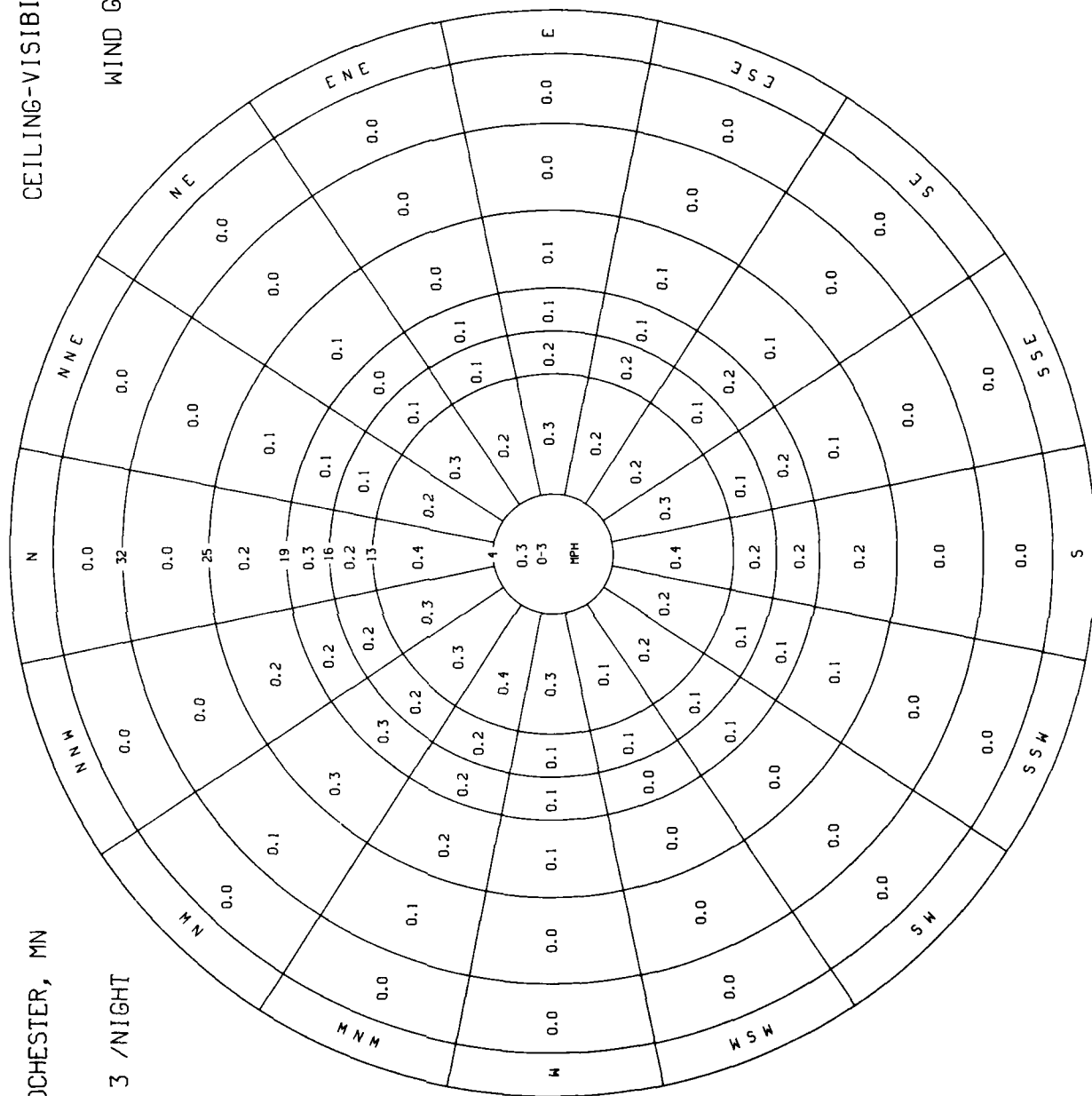
STATION NUMBER: 14925

NO. OBS.: 3669

D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.1	.4	3.4	.2	1.9	.3	2.1	.2	1.5	.0	.1	.0	.1	1.2	8.9	14.4
NNE	.0	.1	.2	1.9	.2	1.3	.2	1.2	.1	.5	.0	.1	.0	.0	.7	5.2	13.8
NE	.0	.0	.3	2.5	.1	1.0	.1	.6	.0	.4	.0	.1	.0	.0	.6	4.7	12.5
ENE	.0	.0	.3	2.0	.2	1.3	.1	.8	.1	.4	.0	.1	.0	.0	.6	4.7	13.2
E	.0	.0	.3	2.6	.2	1.4	.2	1.2	.1	.9	.0	.1	.0	.0	.8	6.2	13.8
ESE	.0	.1	.3	2.2	.2	1.4	.2	1.4	.1	.9	.0	.2	.0	.0	.8	6.2	14.2
SE	.0	.0	.3	2.2	.2	1.6	.2	1.6	.1	.9	.0	.2	.0	.0	.8	6.5	14.9
SSE	.0	.1	.3	2.1	.2	1.4	.2	1.6	.1	1.0	.0	.1	.0	.0	.8	6.2	14.5
S	.0	.1	.4	3.1	.3	2.6	.3	2.3	.2	1.3	.0	.3	.0	.0	1.2	9.6	14.5
SSW	.0	.1	.2	1.4	.1	1.1	.1	.9	.1	.6	.0	.1	.0	.0	.5	4.3	14.6
SW	.0	.0	.2	1.4	.1	.8	.1	.4	.0	.3	.0	.1	.0	.0	.4	3.1	13.2
WSW	.0	.1	.1	1.1	.1	.5	.0	.3	.0	.2	.0	.1	.0	.0	.3	2.3	12.8
W	.0	.1	.3	2.3	.1	1.0	.1	.8	.1	.9	.1	.5	.0	.1	.7	5.6	14.8
WNW	.0	.0	.3	2.2	.2	1.6	.2	1.5	.2	1.5	.1	.8	.0	.0	1.0	7.7	16.2
NW	.0	.0	.3	2.3	.3	2.1	.3	2.7	.4	2.8	.1	.9	.0	.1	1.4	10.9	17.0
NNW	.0	.1	.2	1.8	.2	1.5	.2	1.8	.2	1.4	.0	.3	.0	.0	.9	6.9	15.6
CALM	.1	.9													.1	.9	
TOTAL	2	1.7	4.4	34.4	2.9	22.6	2.7	21.3	2.0	15.5	.5	4.1	.1	.5	12.9	100	14.6

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: RST ROCHESTER, MN

PERIOD: 1961-1978

CLASS 3 / NIGHT

STATION NUMBER: 14925

NO. OBS.: 2812

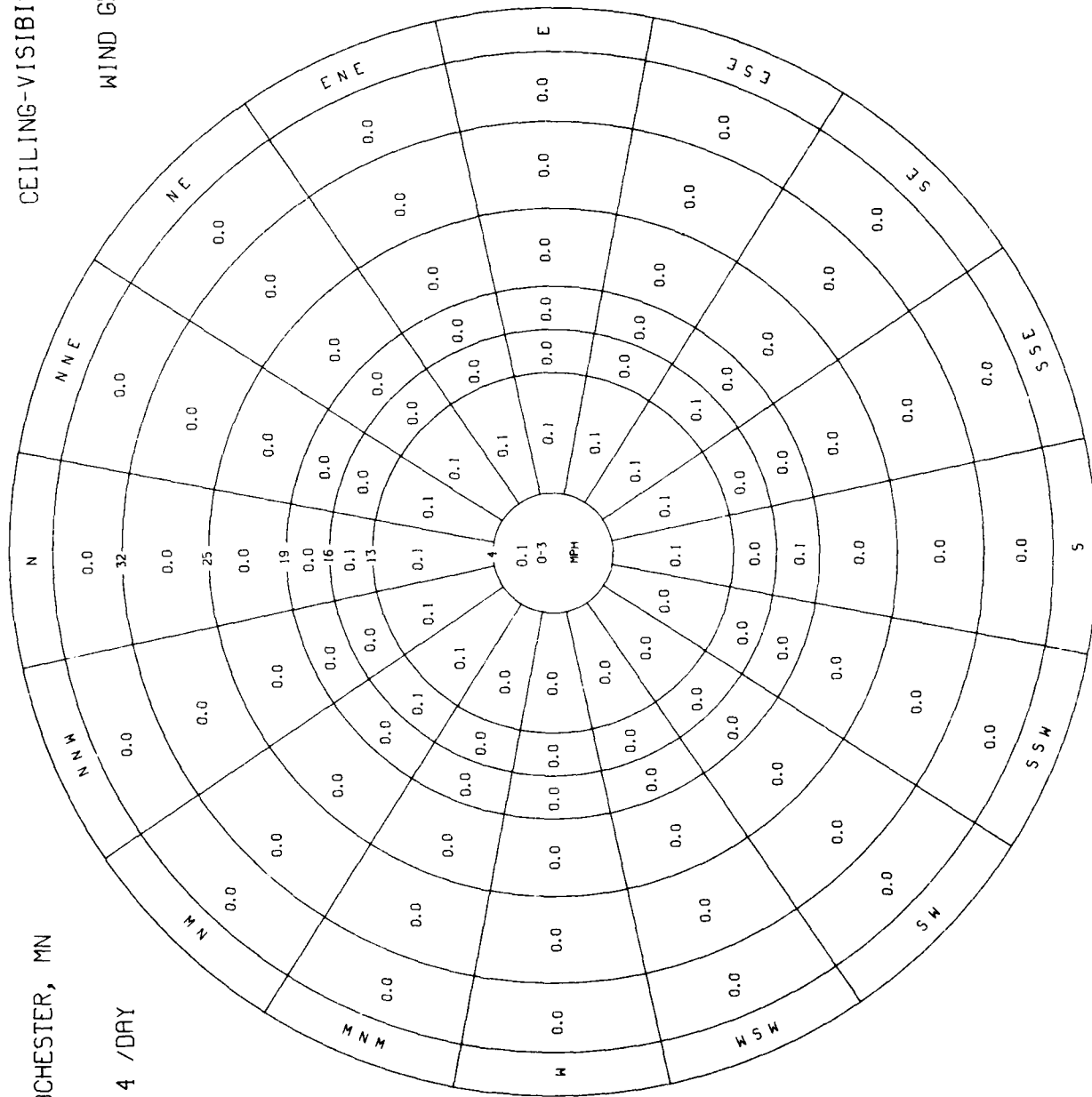
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.1	.4	3.4	.2	1.5	.3	2.2	.2	1.3	.0	.4	.0	.0	1.0 8.9 14.4
NNE	.0	.0	.2	1.7	.1	1.0	.1	.7	.1	.8	.0	.0	.0	.0	.5 4.2 13.8
NE	.0	.1	.3	2.3	.1	1.0	.0	.4	.1	.5	.0	.1	.0	.0	.5 4.5 12.5
ENE	.0	.0	.2	2.0	.1	1.2	.1	1.0	.0	.4	.0	.1	.0	.0	.6 4.8 13.1
E	.0	.0	.3	2.4	.2	1.4	.1	1.2	.1	.9	.0	.1	.0	.0	.7 6.0 13.8
ESE	.0	.1	.2	1.9	.2	1.4	.1	1.3	.1	.9	.0	.2	.0	.0	.7 5.8 14.5
SE	.0	.1	.2	1.7	.1	1.1	.2	1.4	.1	1.1	.0	.2	.0	.0	.7 5.7 15.0
SSE	.0	.0	.3	2.2	.1	.8	.2	1.6	.1	1.0	.0	.0	.0	.0	.7 5.6 14.0
S	.0	.1	.4	3.5	.2	1.5	.2	2.1	.2	2.0	.0	.3	.0	.0	1.1 9.6 14.7
SSW	.0	.1	.2	1.7	.1	.8	.1	1.0	.1	.9	.0	.1	.0	.0	.5 4.5 14.3
SW	.0	.1	.2	1.7	.1	.5	.1	.5	.0	.4	.0	.1	.0	.0	.4 3.3 12.5
WSW	.0	.1	.1	1.1	.1	.5	.0	.4	.0	.1	.0	.0	.0	.1	.3 2.5 12.4
W	.0	.1	.3	2.5	.1	1.0	.1	.8	.1	.6	.0	.2	.0	.1	.6 5.2 14.0
WNW	.0	.1	.4	3.1	.2	1.3	.2	1.6	.2	2.0	.1	1.2	.0	.2	1.1 9.4 16.6
NW	.0	.1	.3	2.7	.2	2.1	.3	2.5	.3	2.5	.1	.6	.0	.2	1.2 10.7 16.3
NNW	.0	.0	.3	2.5	.2	1.6	.2	1.8	.2	1.8	.0	.4	.0	.0	1.0 8.2 15.3
CALM	.1	1.1													.1 1.1
TOTAL	.3	2.3	4.2	36.4	2.2	18.9	2.4	20.4	2.0	17.2	.5	4.1	.1	.6	11.7 100 14.4

RST ROCHESTER, MN

CLASS 4 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: RST ROCHESTER, MN

PERIOD: 1961-1978

CLASS 4 / DAY

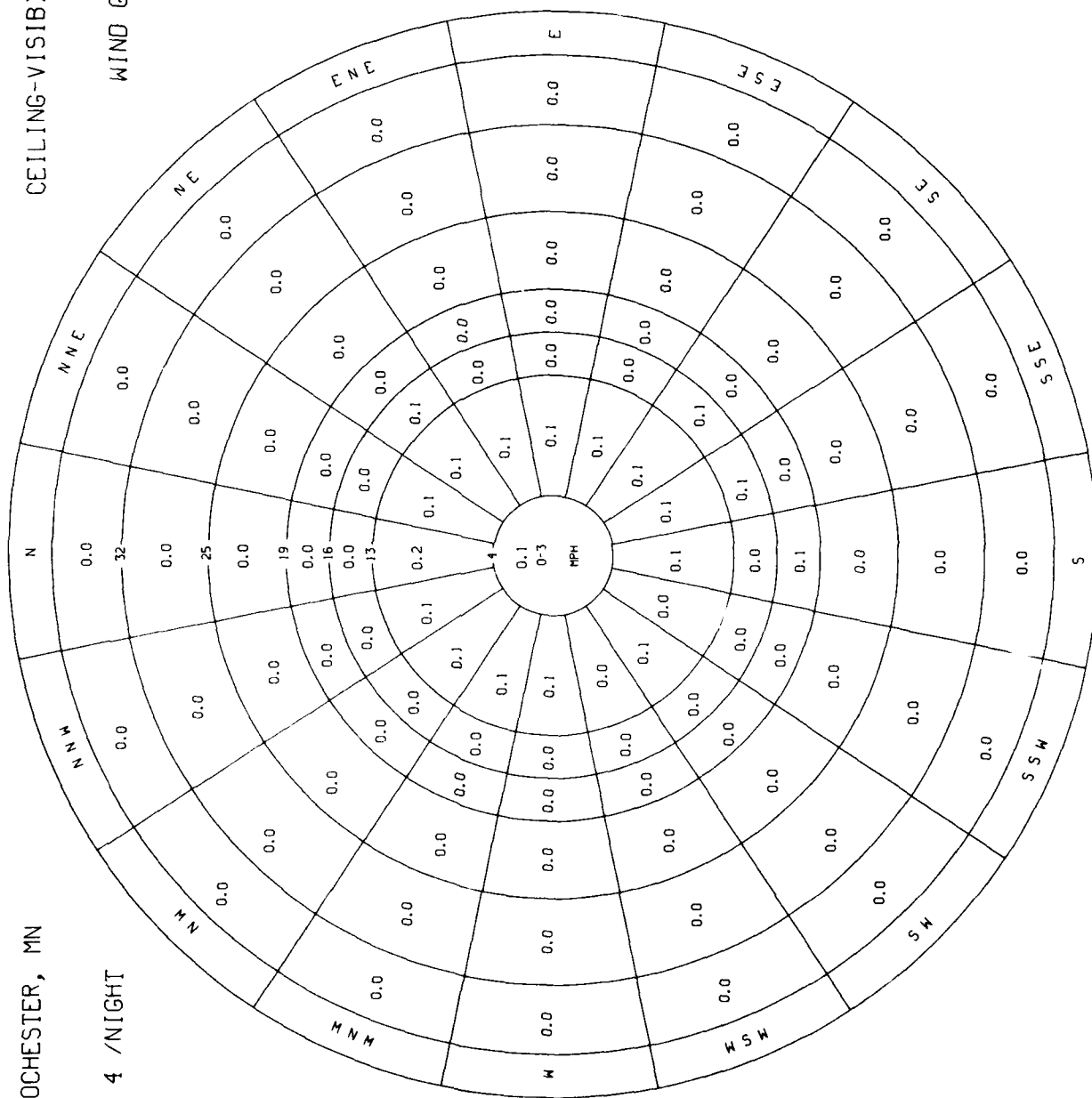
STATION NUMBER: 14925

NO. OBS.: 719

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.3	.1	3.9	.1	2.2	.0	1.9	.0	1.8	.0	.3	.0	.0	.3 10.4
NNE	.0	.3	.1	3.9	.0	1.4	.0	.6	.0	.6	.0	.6	.0	.0	.2 7.2
NNE	.0	.0	.1	3.6	.0	1.9	.0	1.3	.0	.6	.0	.0	.0	.0	.2 7.4
ENE	.0	.0	.1	2.6	.0	1.3	.0	.4	.0	.3	.0	.0	.0	.0	.1 4.6
E	.0	.0	.1	4.7	.0	1.3	.0	1.0	.0	1.0	.0	.0	.0	.1	.2 8.1
ESE	.0	.3	.1	2.9	.0	1.5	.0	1.4	.0	.7	.0	.4	.0	.3	.2 7.5
SE	.0	.0	.1	3.1	.1	2.2	.0	1.1	.0	.4	.0	.1	.0	.0	.2 7.0
SSE	.0	.1	.1	3.3	.0	1.8	.0	.7	.0	.7	.0	.0	.0	.0	.2 6.7
S	.0	.0	.1	4.3	.0	1.7	.1	2.4	.0	1.1	.0	.6	.0	.0	.3 10.0
SSW	.0	.1	.0	1.1	.0	1.1	.0	.6	.0	.4	.0	.0	.0	.0	.1 3.3
SW	.0	.0	.0	1.4	.0	.3	.0	.1	.0	.0	.0	.1	.0	.0	.0 1.9
WSW	.0	.1	.0	1.4	.0	.1	.0	.3	.0	.0	.0	.1	.0	.0	.1 2.1
W	.0	.0	.0	1.5	.0	.6	.0	.4	.0	.0	.0	.0	.0	.3	.1 2.8
WNW	.0	.1	.0	1.4	.0	1.0	.0	.4	.0	.8	.0	.6	.0	.4	.1 4.7
NW	.0	.1	.1	2.5	.1	2.1	.0	1.4	.0	1.0	.0	.4	.0	.1	.2 7.6
NNW	.0	.0	.1	2.5	.0	1.7	.0	1.4	.0	1.7	.0	.1	.0	.0	.2 7.4
CALM	.0	1.3													.0 1.3
TOTAL	.1	2.8	1.1	44.2	.6	22.1	.4	15.3	.3	11.0	.1	3.3	.0	1.3	2.5 100
															13.4

RST ROCHESTER, MN

CLASS 4 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: RST ROCHESTER, MN

PERIOD: 1961-1978

CLASS 4 / NIGHT

STATION NUMBER: 14925

NO. OBS.: 662

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.0	.2	6.0	.0	1.5	.0	1.2	.0	1.1	.0	.2	.0	.0	.3 10.0
NNE	.0	.0	.1	3.3	.0	1.1	.0	.8	.0	.5	.0	.5	.0	.0	.2 6.0
NE	.0	.0	.1	3.0	.1	2.1	.0	.9	.0	.6	.0	.3	.0	.0	.2 7.1
ENE	.0	.2	.1	2.3	.0	.6	.0	.3	.0	.0	.0	.2	.0	.0	.1 3.5
E	.0	.0	.1	3.3	.0	.6	.0	.6	.0	.8	.0	.0	.0	.0	.1 5.3
ESE	.0	.3	.1	2.7	.0	1.5	.0	.9	.0	.6	.0	.0	.0	.0	.2 6.0
SE	.0	.0	.1	3.2	.1	2.1	.0	.8	.0	.6	.0	.2	.0	.0	.2 6.8
SSE	.0	.0	.1	2.7	.1	2.0	.0	.6	.0	1.1	.0	.2	.0	.0	.2 6.5
S	.0	.0	.1	5.1	.0	1.1	.1	2.7	.0	1.4	.0	.0	.0	.2	.3 10.4
SSW	.0	.0	.0	1.4	.0	1.7	.0	.6	.0	.5	.0	.2	.0	.0	.1 4.2
SW	.0	.0	.1	2.1	.0	.3	.0	.3	.0	.3	.0	.2	.0	.0	.1 3.2
WSW	.0	.2	.0	1.5	.0	.5	.0	.3	.0	.2	.0	.0	.0	.0	.1 2.6
W	.0	.5	.1	2.1	.0	.5	.0	.3	.0	.3	.0	.0	.0	.5	.1 4.1
WNW	.0	.0	.1	2.9	.0	1.7	.0	.9	.0	.3	.0	.5	.0	.2	.2 6.3
NW	.0	.6	.1	4.7	.0	1.5	.0	1.2	.0	1.1	.0	.3	.0	.6	.3 10.0
NNW	.0	.3	.1	2.3	.0	1.7	.0	1.1	.0	.5	.0	.3	.0	.0	.2 6.0
CALM	.1	2.0													.1 2.0
TOTAL	.1	3.9	1.3	48.6	.6	20.2	.4	13.4	.3	9.7	.1	2.7	.0	1.4	2.7 100
															12.8

AD-A108 161

NATIONAL CLIMATIC CENTER ASHEVILLE NC

F/G 4/2

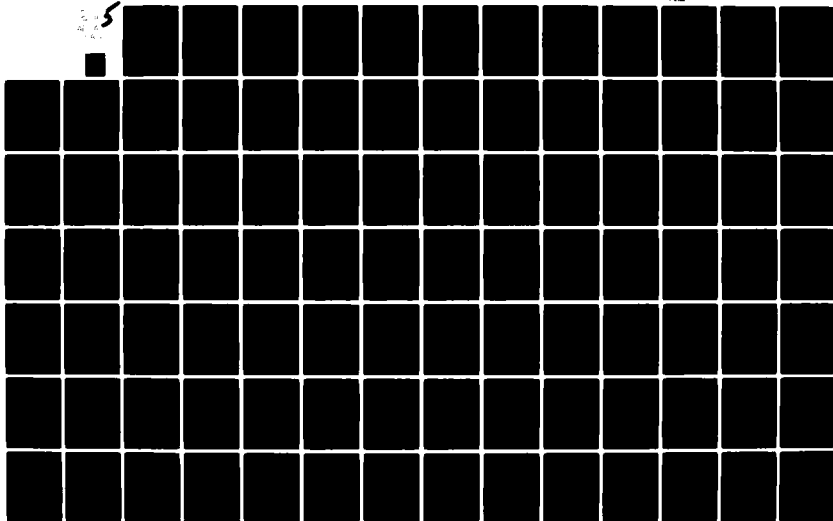
WIND - CEILING - VISIBILITY DATA AT SELECTED AIRPORTS. VOLUME I--ETC(U)

JUN 81

DOT-FA79WAI-057

UNCLASSIFIED

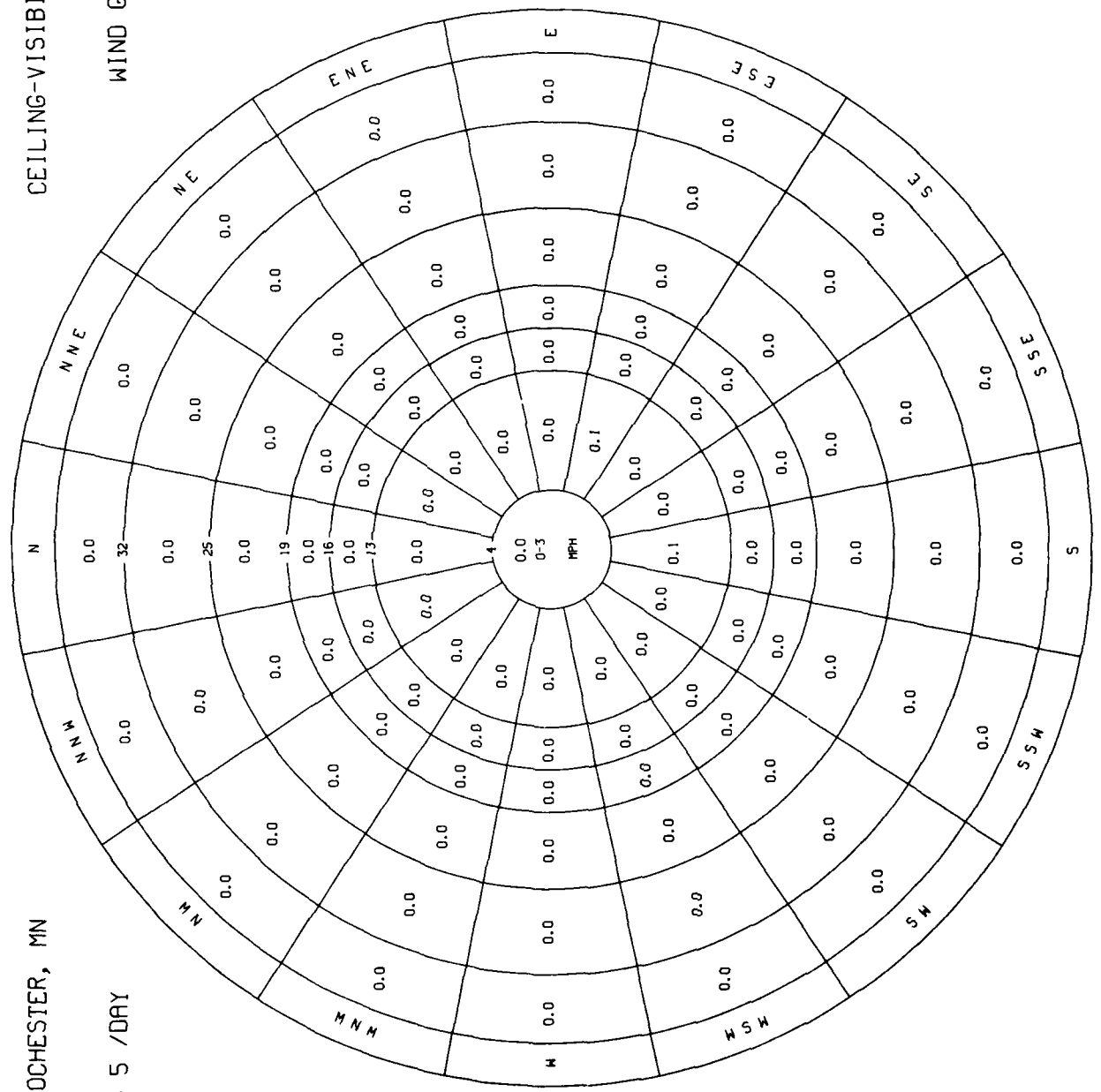
NL



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816

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: RST ROCHESTER, MN

PERIOD: 1961-1978

CLASS 5 / DAY

STATION NUMBER: 14925

NO. OBS.: 230

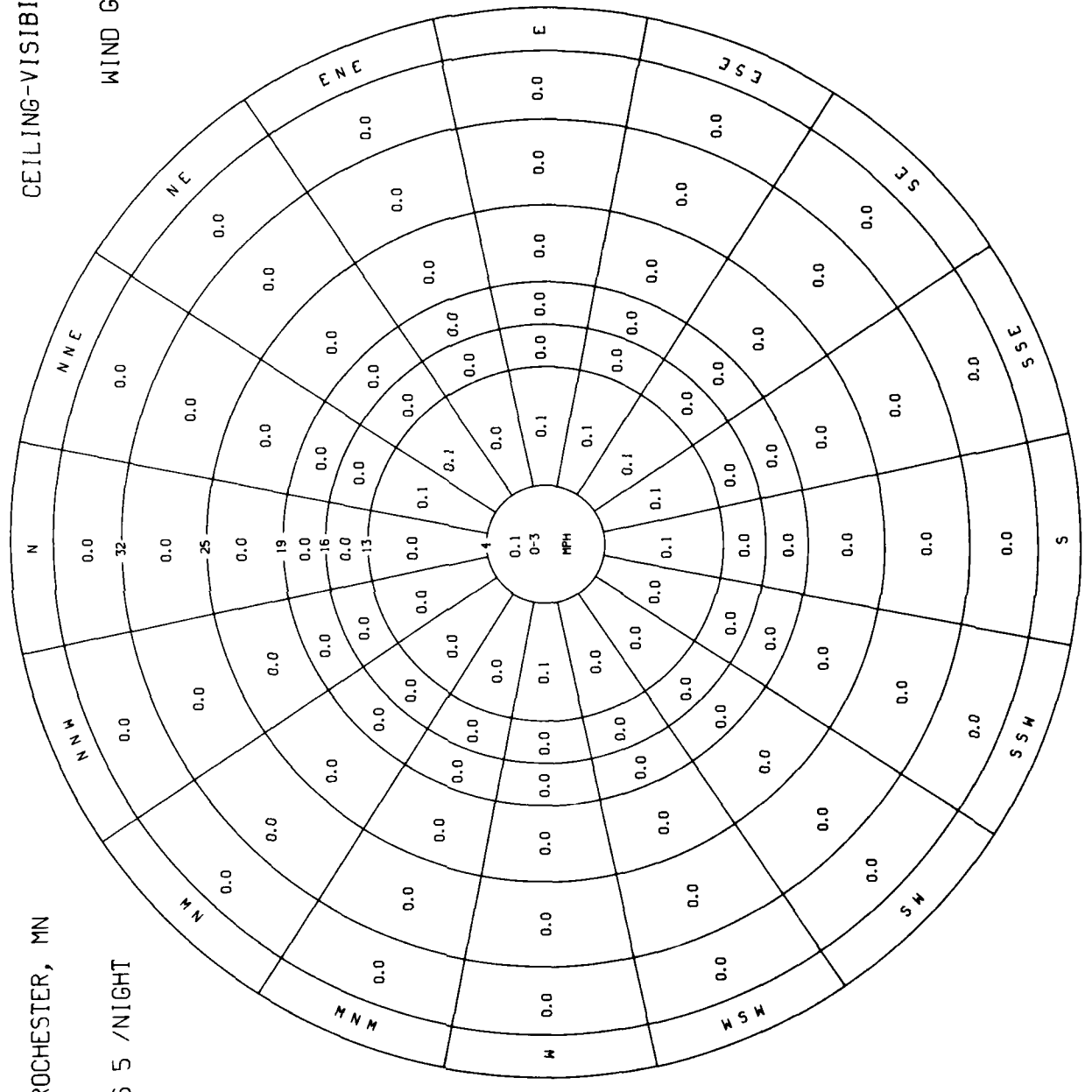
D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.0	.0	3.5	.0	.9	.0	1.7	.0	.0	.0	.4	.0	.4	.1	7.0	14.3
NNE	.0	.0	.0	1.7	.0	.9	.0	.0	.0	1.3	.0	.9	.0	.4	.0	5.2	19.0
NE	.0	.0	.0	3.5	.0	1.3	.0	.4	.0	.9	.0	.0	.0	.0	.0	6.1	12.0
ENE	.0	.0	.0	3.9	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	4.8	9.7
E	.0	.9	.0	2.6	.0	1.7	.0	.9	.0	1.7	.0	.0	.0	.0	.1	7.8	13.0
ESE	.0	.0	.1	7.0	.0	.4	.0	.9	.0	.4	.0	.0	.0	.0	.1	8.7	11.6
SE	.0	.0	.0	3.5	.0	2.2	.0	.4	.0	1.3	.0	.0	.0	.0	.1	7.4	13.0
SSE	.0	.0	.0	3.9	.0	2.6	.0	.9	.0	.0	.0	.0	.0	.4	.1	7.8	12.7
S	.0	.0	.1	6.5	.0	1.3	.0	.9	.0	.9	.0	.9	.0	.0	.1	10.4	12.7
SSW	.0	.0	.0	5.7	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.1	7.0	8.5
SW	.0	.4	.0	1.7	.0	1.3	.0	.9	.0	.0	.0	.0	.0	.0	.0	4.3	11.5
WSW	.0	.4	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	6.7
W	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4	.0	2.2	17.6
WNW	.0	.0	.0	2.2	.0	2.2	.0	.0	.0	.4	.0	.9	.0	.4	.0	6.1	15.9
NW	.0	.0	.0	3.5	.0	1.3	.0	.4	.0	.0	.0	.0	.0	.4	.0	5.7	12.4
NNW	.0	.0	.0	1.7	.0	2.2	.0	.9	.0	.0	.0	.0	.0	.0	.0	4.8	12.3
CALM	.0	1.7													.0	1.7	
TOTAL	.0	3.5	.4	54.8	.2	19.6	.1	9.1	.1	7.4	.0	3.0	.0	2.6	.8	100	12.4

CEILING-VISIBILITY

WIND GRAPH

RST ROCHESTER, MN

CLASS 5 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: RST ROCHESTER, MN

PERIOD: 1961-1978

CLASS 5 / NIGHT

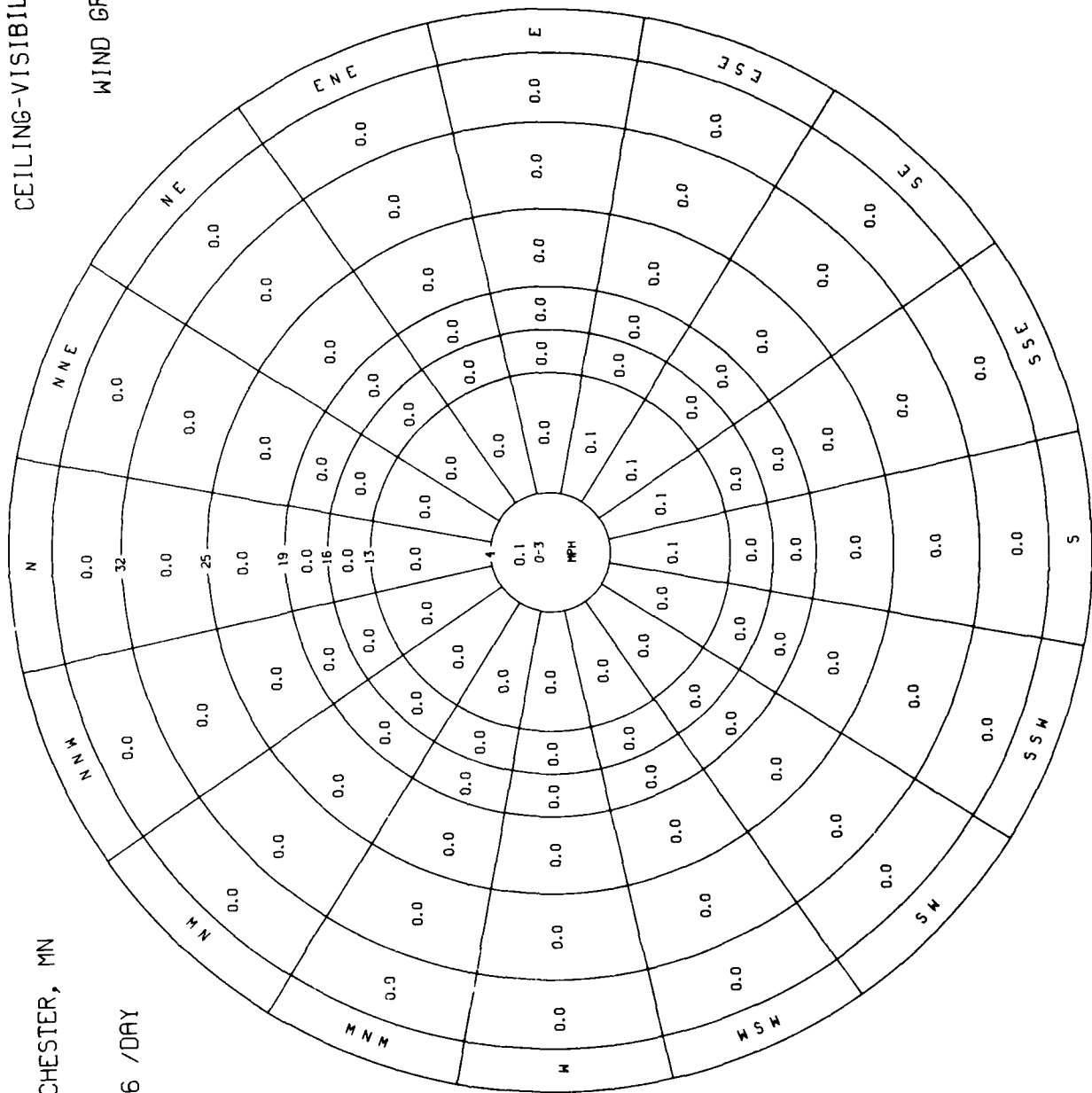
STATION NUMBER: 14925

NO. OBS.: 318

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.0	.0	3.1	.0	1.3	.0	.0	.0	.0	.0	.3	.0	.0	.1 4.7
NNE	.0	.6	.1	4.4	.0	.9	.0	.3	.0	.9	.0	.0	.0	.0	.1 7.2
NE	.0	.0	.1	5.7	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.1 6.0
ENE	.0	.0	.0	1.9	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0 2.5
E	.0	.3	.1	5.7	.0	1.3	.0	.3	.0	.0	.0	.0	.0	.0	.1 7.5
ESE	.0	.0	.1	5.7	.0	1.3	.0	.3	.0	.6	.0	.0	.0	.0	.1 7.9
SE	.0	.0	.1	6.6	.0	.9	.0	1.9	.0	.3	.0	.0	.0	.0	.1 9.7
SSE	.0	.0	.1	4.1	.0	1.3	.0	.3	.0	.9	.0	.0	.0	.0	.1 6.6
S	.0	.3	.1	8.8	.0	1.9	.0	1.3	.0	1.6	.0	.3	.0	.0	.2 14.2
SSW	.0	.3	.0	2.5	.0	.9	.0	.3	.0	.3	.0	.0	.0	.0	.1 4.4
SW	.0	.0	.0	2.8	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.1 4.1
WSW	.0	.0	.0	1.9	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.5
W	.0	.3	.1	4.4	.0	.0	.0	.3	.0	.0	.0	.0	.0	.3	.1 5.3
WNW	.0	.0	.0	3.5	.0	.6	.0	.3	.0	.0	.0	.3	.0	.6	.1 5.3
NW	.0	.0	.0	2.5	.0	1.3	.0	.3	.0	.3	.0	.0	.0	.0	.1 4.4
NNW	.0	.0	.0	1.9	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.5
CALM	.1	4.1													.1 4.1
TOTAL	.1	6.0	.9	65.4	.2	15.7	.1	5.7	.1	5.3	.0	.9	.0	.9	1.3 100
															10.5

RST ROCHESTER, MN

CLASS 6 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: RST ROCHESTER, MN

PERIOD: 1961-1978

CLASS 6 / DAY

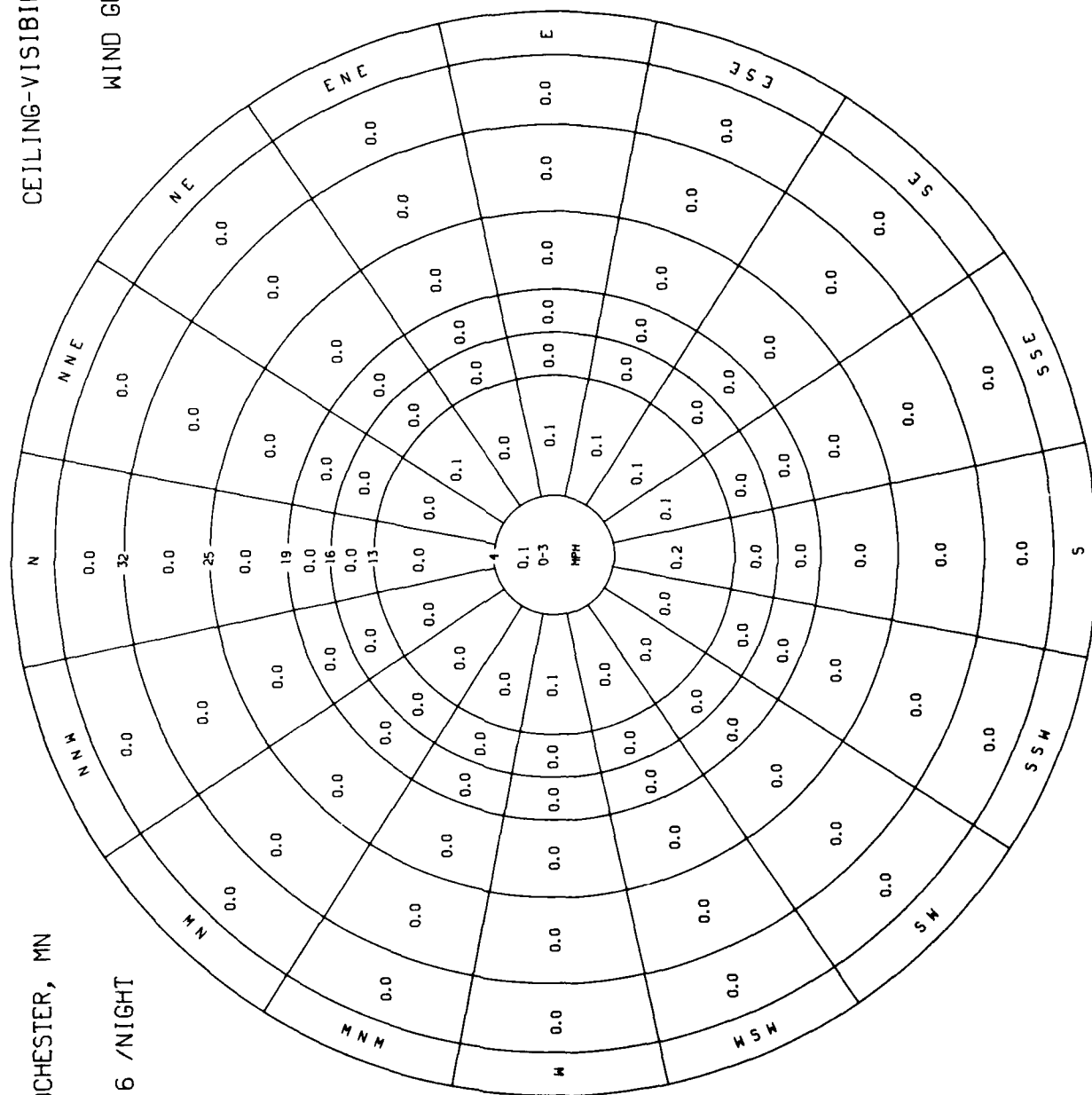
STATION NUMBER: 14925

NO. OBS.: 264

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.8	.0	4.5	.0	1.5	.0	.4	.0	.0	.0	.0	.0	.4	.1 7.6
NNE	.0	.4	.0	4.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 5.3
NE	.0	.4	.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.4
ENE	.0	.0	.0	2.3	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0 3.0
E	.0	.4	.0	2.7	.0	1.1	.0	.4	.0	.4	.0	.0	.0	.0	.0 4.9
ESE	.0	.0	.1	6.8	.0	.4	.0	1.5	.0	.4	.0	.0	.0	.0	.1 9.1
SE	.0	.4	.1	6.4	.0	.8	.0	.8	.0	.0	.0	.0	.0	.0	.1 8.3
SSE	.0	.4	.1	7.2	.0	.8	.0	.4	.0	.0	.0	.0	.0	.0	.1 8.7
S	.0	1.9	.1	12.1	.0	1.1	.0	1.9	.0	1.1	.0	.0	.0	.0	.2 18.2
SSW	.0	.8	.0	3.4	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0 4.9
SW	.0	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.3
WSW	.0	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.3
W	.0	.8	.0	2.7	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0 5.3
WNW	.0	.4	.0	3.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0 4.2
NW	.0	.4	.0	2.3	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0 3.0
NNW	.0	.4	.0	3.4	.0	.8	.0	.0	.0	.0	.0	.4	.0	.0	.0 4.9
CALM	.0	4.5													.0 4.5
TOTAL	.1	11.7	.6	69.7	.1	8.0	.1	6.8	.0	1.9	.0	.8	.0	1.1	.9 100

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: RST ROCHESTER, MN

PERIOD: 1961-1978

CLASS 6 / NIGHT

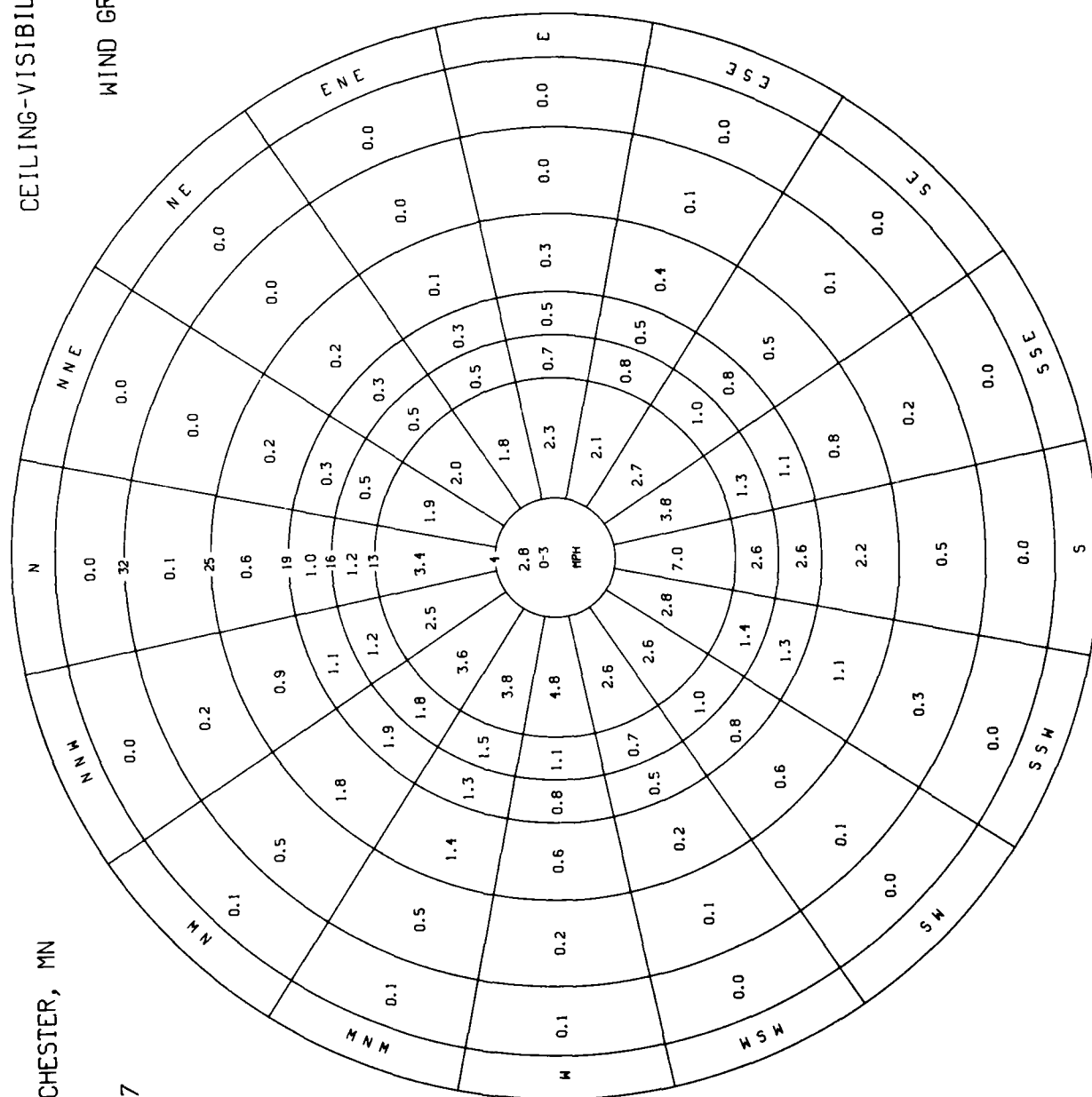
STATION NUMBER: 14925

NO. OBS.: 282

D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.4	.0	3.2	.0	.7	.0	.4	.0	.0	.0	.0	.0	.0	.1	4.6	8.7
NNE	.0	.4	.0	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	6.8
NENE	.0	.4	.1	6.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	7.1	6.8
ENE	.0	.7	.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	7.2
E	.0	.4	.1	5.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	5.3	7.3
ESE	.0	.4	.1	5.3	.0	.0	.0	.7	.0	.4	.0	.0	.0	.0	.1	6.7	9.3
SE	.0	.0	.1	6.0	.0	.4	.0	.7	.0	.0	.0	.0	.0	.0	.1	7.1	9.1
SSE	.0	.4	.1	6.0	.0	1.1	.0	1.1	.0	.4	.0	.0	.0	.0	.1	8.9	10.1
S	.0	.0	.2	15.2	.0	1.4	.0	1.8	.0	.0	.0	.0	.0	.0	.2	18.4	9.6
SSW	.0	.7	.0	2.1	.0	.4	.0	.7	.0	.4	.0	.0	.0	.0	.0	4.3	10.2
SW	.0	.0	.0	3.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5	8.2
WSW	.0	.0	.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	6.0
W	.0	.0	.1	4.6	.0	.0	.0	.4	.0	.0	.0	.0	.0	.4	.1	5.3	10.7
WNW	.0	.4	.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	3.5	11.4
NW	.0	.7	.0	3.9	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.1	6.0	8.8
NNW	.0	.0	.0	2.1	.0	1.1	.0	.7	.0	.0	.0	.0	.0	.0	.0	3.9	10.7
CALM	.1	6.4			.1	6.4			.1	6.4					.1	6.4	
TOTAL	.1	11.0	.9	74.1	.1	6.4	.1	6.4	.0	1.1	.0	.0	.0	.0	1.1	100	8.4

RST ROCHESTER, MN

CLASS 7

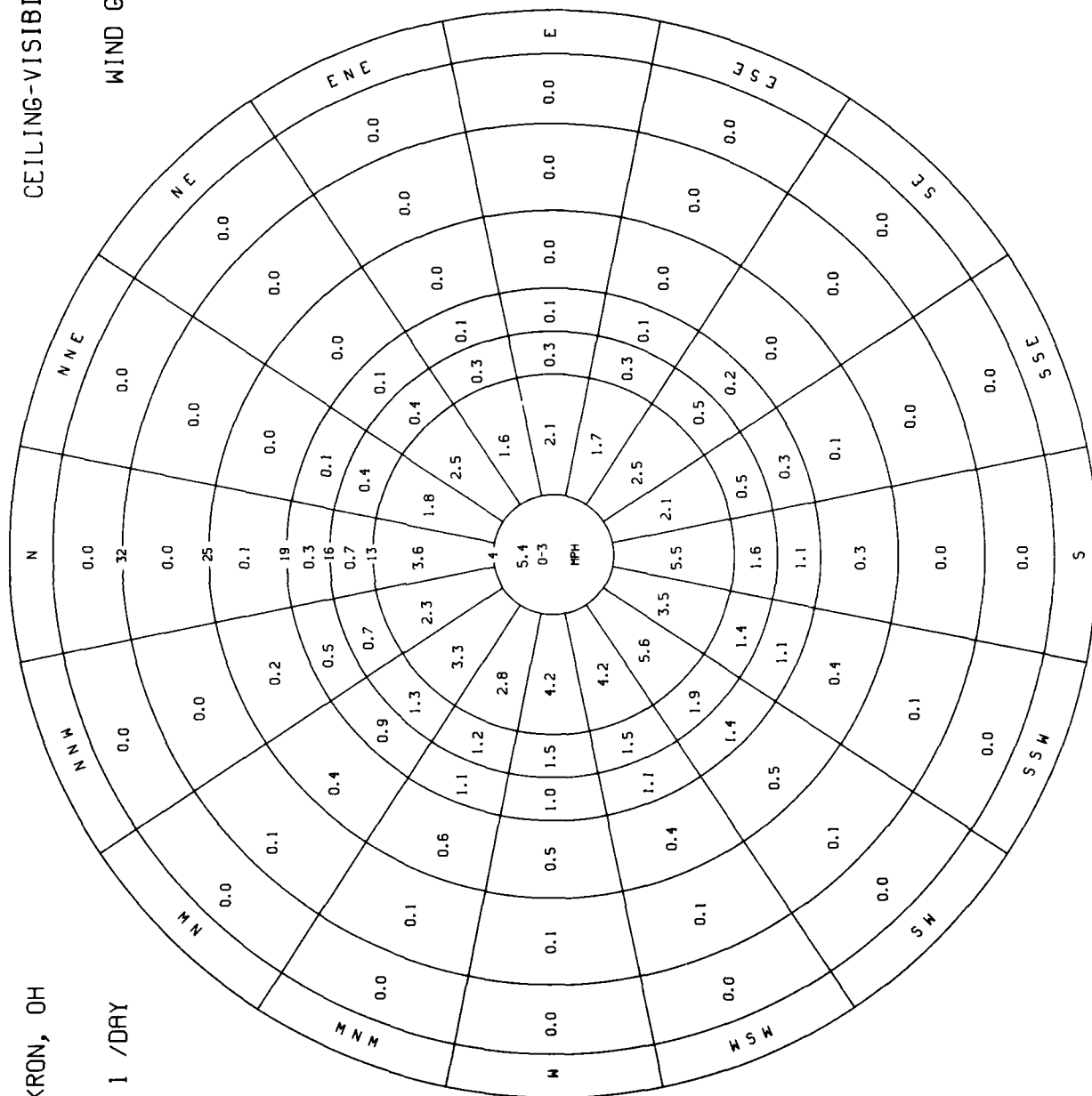


CEILING-VISIBILITY

WIND GRAPH

CAK AKRON, OH

CLASS 1 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1949-1978

STATION NAME: CAK AKRON, OH

CLASS 1 / DAY

NO. OBS.: 39176

STATION NUMBER: 14895

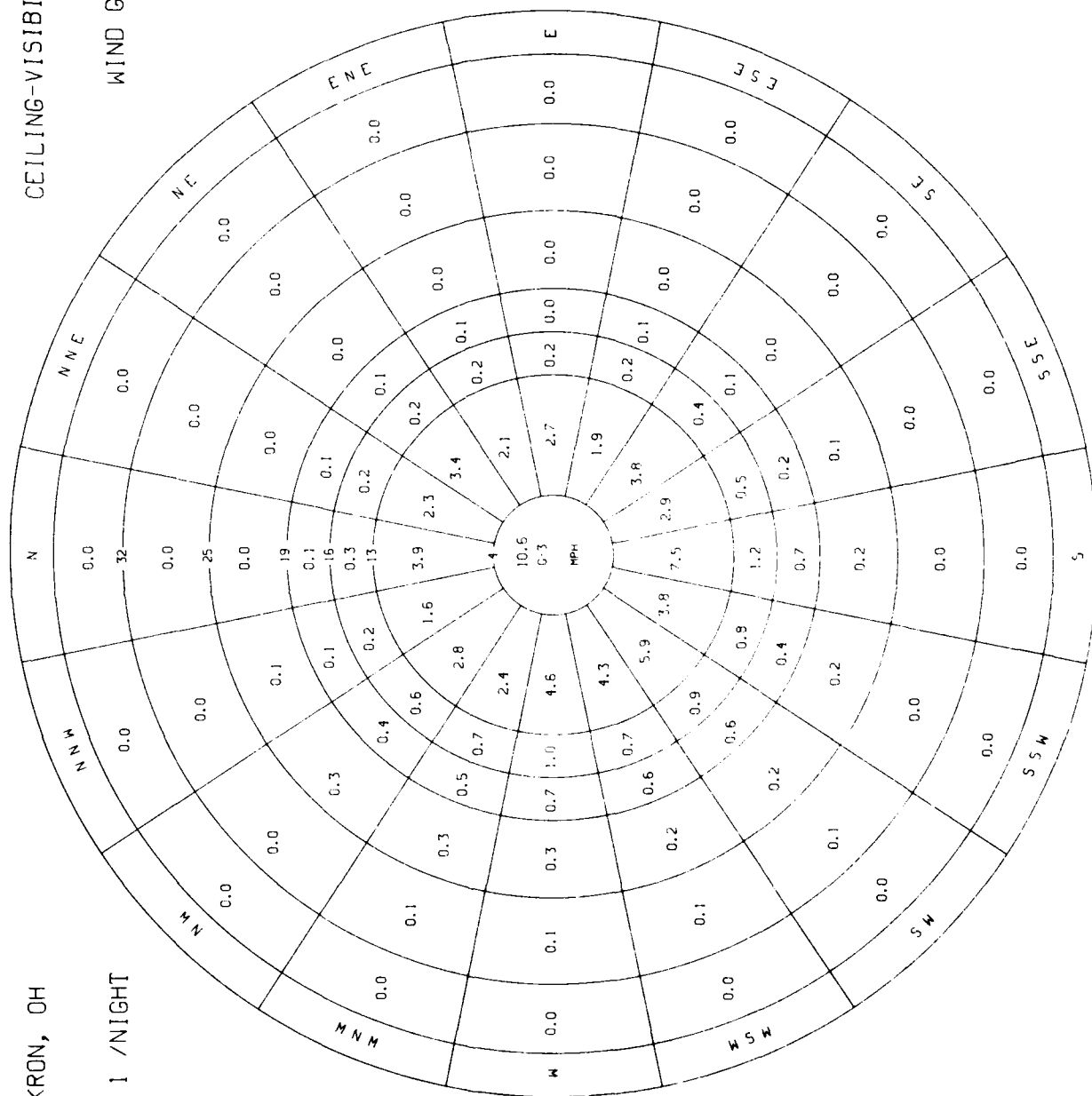
D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.3	.3	3.6	4.4	.7	.8	.3	.3	.1	.1	.0	.0	.0	.0	4.9	5.9	9.3
NNE	.2	.2	1.8	2.2	.4	.4	.1	.2	.0	.0	.0	.0	.0	.0	2.5	3.0	9.3
NE	.3	.3	2.5	3.0	.4	.5	.1	.1	.0	.0	.0	.0	.0	.0	3.3	3.9	8.7
ENE	.1	.2	1.6	2.0	.3	.3	.1	.1	.0	.0	.0	.0	.0	.0	2.1	2.6	8.8
E	.2	.3	2.1	2.6	.3	.4	.1	.1	.0	.0	.0	.0	.0	.0	2.7	3.3	8.5
ESE	.2	.2	1.7	2.0	.3	.3	.1	.1	.0	.0	.0	.0	.0	.0	2.2	2.7	9.0
SE	.3	.4	2.5	3.0	.5	.5	.2	.2	.0	.0	.0	.0	.0	.0	3.5	4.2	9.0
SSE	.2	.3	2.1	2.6	.5	.6	.3	.3	.1	.1	.0	.0	.0	.0	3.2	3.8	9.6
S	.4	.5	5.5	6.6	1.6	2.0	1.1	1.3	.3	.4	.0	.0	.0	.0	9.0	10.9	10.8
SSW	.2	.2	3.5	4.3	1.4	1.7	1.1	1.3	.4	.5	.1	.1	.0	.0	6.7	8.1	12.0
SW	.4	.4	5.6	6.8	1.9	2.3	1.4	1.7	.5	.6	.1	.1	.0	.0	9.8	11.9	11.4
WSW	.2	.3	4.2	5.0	1.5	1.8	1.1	1.3	.4	.5	.1	.2	.0	.0	7.6	9.2	11.7
W	.3	.3	4.2	5.1	1.5	1.8	1.0	1.2	.5	.6	.1	.1	.0	.0	7.6	9.2	11.6
WNW	.2	.3	2.8	3.4	1.2	1.5	1.1	1.3	.6	.7	.1	.1	.0	.0	6.0	7.3	12.5
NW	.2	.3	3.3	4.0	1.3	1.6	.9	1.1	.4	.5	.1	.1	.0	.0	6.3	7.6	11.9
NNW	.1	.2	2.3	2.7	.7	.8	.5	.6	.2	.2	.0	.0	.0	.0	3.7	4.5	11.0
CALM	1.6	1.9													1.6	1.9	
TOTAL	5.4	6.6	49.3	59.7	14.4	17.5	9.3	11.2	3.5	4.2	.6	.8	.1	.1	82.6	100	10.6

CEILING-VISIBILITY

WIND GRAPH

CAK AKRON, OH

CLASS 1 / NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: CAK AKRON, OH

PERIOD: 1949-1978

CLASS 1 / NIGHT

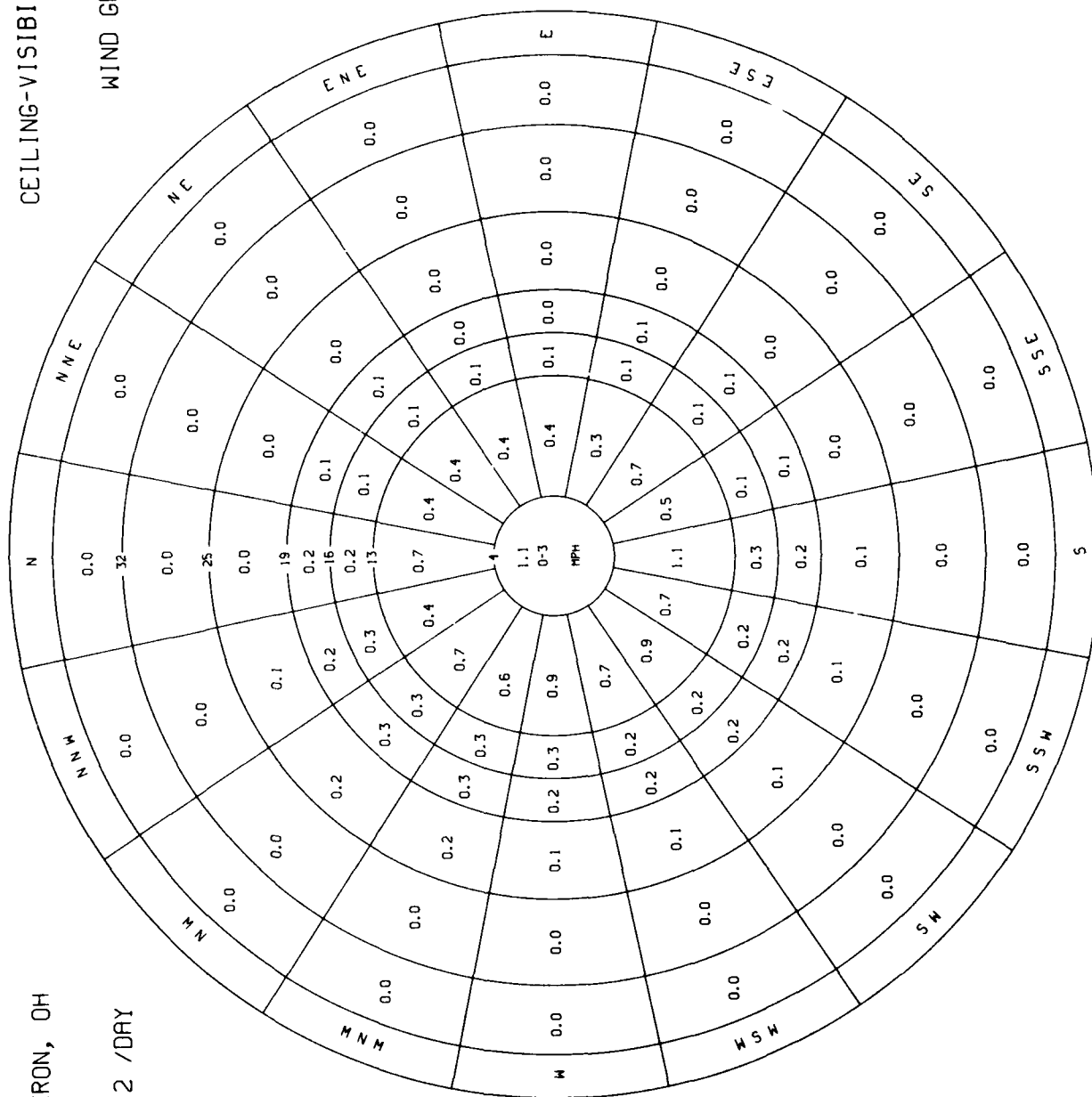
STATION NUMBER: 14895

NO. OBS.: 32838

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.4	.5	3.9	4.8	.3	.4	.1	.1	.0	.0	.0	.0	.0	.0	4.7	5.8	7.6
NNE	.3	.3	2.3	2.8	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	2.9	3.5	7.9
NE	.4	.5	3.4	4.1	.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	4.2	5.1	7.5
ENE	.2	.3	2.1	2.6	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	2.6	3.1	7.9
E	.4	.4	2.7	3.3	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	3.3	4.0	7.6
ESE	.3	.4	1.9	2.3	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	2.5	3.1	8.1
SE	.8	.9	3.8	4.6	.4	.4	.1	.1	.0	.0	.0	.0	.0	.0	5.0	6.2	7.5
SSE	.5	.6	2.9	3.6	.5	.6	.2	.3	.1	.1	.0	.0	.0	.0	4.2	5.2	8.6
S	.9	1.1	7.5	9.1	1.2	1.4	.7	.8	.2	.3	.0	.0	.0	.0	10.5	12.8	9.1
SSW	.5	.6	3.8	4.7	.8	1.0	.4	.5	.2	.2	.0	.0	.0	.0	5.8	7.1	9.7
SW	.5	.6	5.9	7.3	.9	1.1	.6	.7	.2	.3	.1	.1	.0	.0	8.1	10.0	9.2
WSW	.4	.5	4.3	5.3	.7	.9	.6	.7	.2	.3	.1	.1	.0	.0	6.3	7.7	9.8
W	.4	.5	4.6	5.6	1.0	1.2	.7	.8	.3	.3	.1	.1	.0	.0	7.0	8.6	10.1
WNW	.3	.4	2.4	3.0	.7	.9	.5	.6	.3	.4	.1	.1	.0	.0	4.3	5.3	11.1
NW	.3	.3	2.8	3.4	.6	.7	.4	.4	.3	.3	.0	.0	.0	.0	4.3	5.3	10.3
NNW	.1	.2	1.6	1.9	.2	.2	.1	.1	.1	.1	.0	.0	.0	.0	2.1	2.6	8.6
CALM	3.9	4.8													3.9	4.8	
TOTAL	10.6	13.0	55.9	68.4	8.3	10.1	4.6	5.6	1.9	2.3	.4	.5	.1	.1	81.7	100	8.5

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: CAK AKRON, OH

PERIOD: 1949-1978

CLASS 2 / DAY

STATION NUMBER: 14895

NO. OBS.: 8264

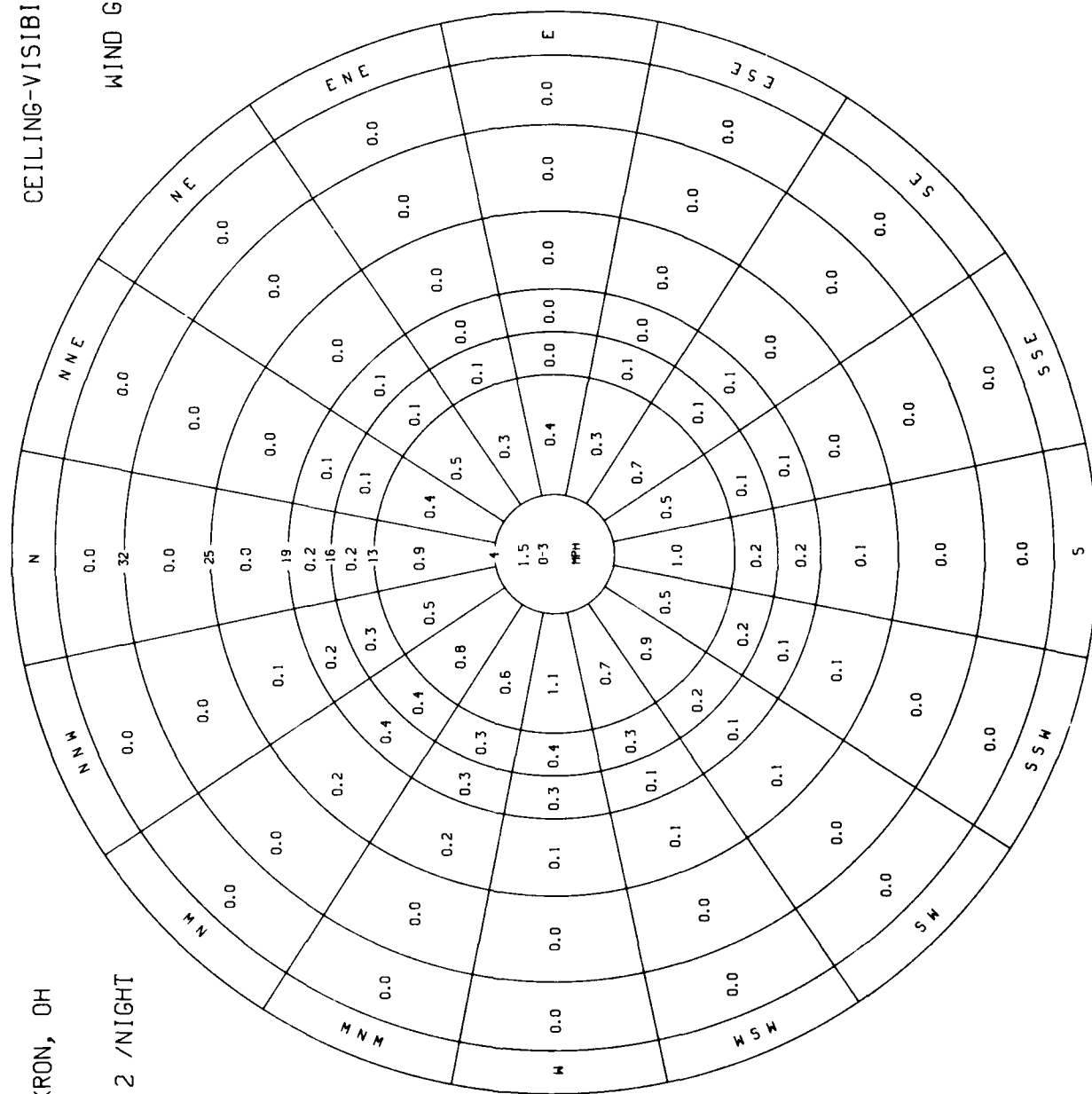
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.3	.7	4.1	.2	1.2	.2	.9	.0	.2	.0	.0	.0	.0	1.2 6.7 11.0
NNE	.0	.1	.4	2.3	.1	.7	.1	.4	.0	.1	.0	.0	.0	.0	.6 3.5 10.4
NE	.0	.3	.4	2.6	.1	.4	.1	.3	.0	.1	.0	.0	.0	.0	.6 3.7 9.6
ENE	.0	.1	.4	2.1	.1	.4	.0	.2	.0	.1	.0	.0	.0	.0	.5 2.9 10.0
E	.0	.3	.4	2.5	.1	.3	.0	.2	.0	.1	.0	.0	.0	.0	.6 3.4 9.4
ESE	.0	.2	.3	1.8	.1	.5	.1	.3	.0	.0	.0	.0	.0	.0	.5 2.8 9.9
SE	.1	.5	.7	3.9	.1	.8	.1	.4	.0	.1	.0	.0	.0	.0	1.0 5.6 9.4
SSE	.0	.2	.5	3.1	.1	.6	.1	.5	.0	.1	.0	.0	.0	.0	.8 4.5 10.3
S	.1	.5	1.1	6.2	.3	1.9	.2	1.2	.1	.4	.0	.0	.0	.0	1.8 10.1 10.8
SSW	.0	.2	.7	3.8	.2	1.3	.2	.9	.1	.3	.0	.0	.0	.0	1.2 6.7 11.6
SW	.1	.4	.9	5.3	.2	1.4	.2	1.0	.1	.4	.0	.0	.0	.1	1.5 8.6 11.1
WSW	.0	.2	.7	4.3	.2	1.2	.2	.9	.1	.5	.0	.1	.0	.0	1.3 7.3 11.5
W	.0	.3	.9	4.9	.3	1.8	.2	1.4	.1	.5	.0	.1	.0	.0	1.5 8.9 11.7
WNW	.0	.1	.6	3.6	.3	1.6	.3	1.7	.2	1.1	.0	.2	.0	.0	1.5 8.4 13.8
NW	.0	.2	.7	3.9	.3	1.9	.3	1.6	.2	1.3	.0	.2	.0	.1	1.6 9.2 13.8
NNW	.0	.1	.4	2.5	.3	1.5	.2	.9	.1	.5	.0	.1	.0	.0	1.0 5.6 13.0
CALM	.3	2.0													.3 2.0
TOTAL	1.1	6.1	9.9	56.7	3.0	17.4	2.3	13.0	1.0	5.7	.2	.9	.1	.3	17.4 100 11.2

CEILING-VISIBILITY

WIND GRAPH

CAK AKRON, OH

CLASS 2 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: CAK AKRON, OH

PERIOD: 1949-1978

CLASS 2 / NIGHT

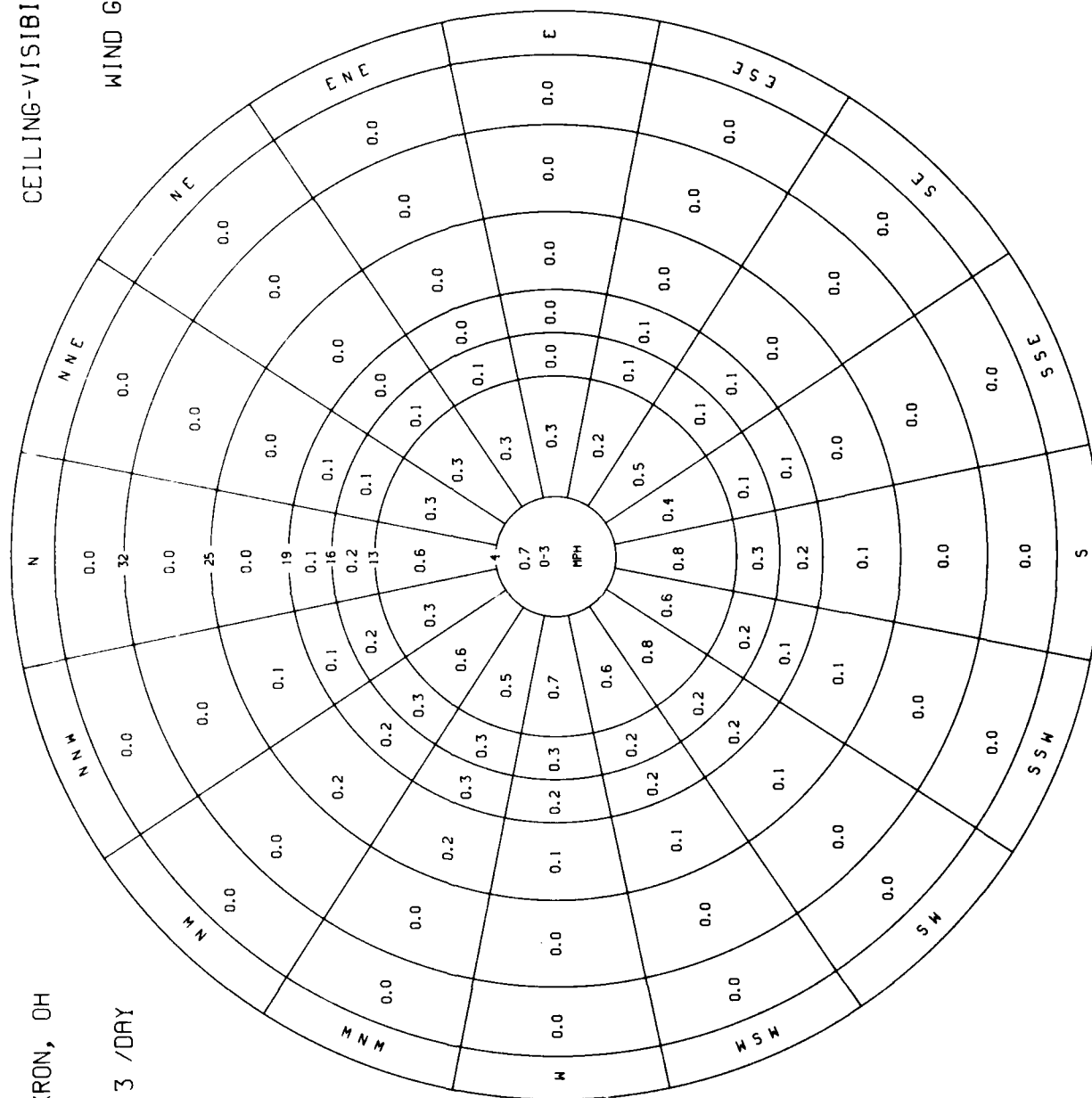
STATION NUMBER: 14895

NO. OBS.: 7333

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B		C	D
N	.1	.3	.9	5.1	.2	1.1	.2	.9	.0	.2	.0	.1	.0	.0	1.4	7.7	10.4
NNE	.0	.2	.4	2.1	.1	.5	.1	.5	.0	.1	.0	.0	.0	.0	.6	3.4	10.5
NE	.0	.2	.5	3.0	.1	.4	.1	.4	.0	.1	.0	.0	.0	.0	.7	4.1	9.7
ENE	.1	.3	.3	1.7	.1	.4	.0	.2	.0	.1	.0	.0	.0	.0	.5	2.6	9.5
E	.0	.3	.4	2.3	.0	.3	.0	.1	.0	.1	.0	.0	.0	.0	.6	3.1	8.8
ESE	.1	.3	.3	1.8	.1	.4	.0	.1	.0	.0	.0	.0	.0	.0	.5	2.7	8.9
SE	.1	.7	.7	3.8	.1	.6	.1	.5	.0	.1	.0	.0	.0	.0	1.0	5.7	8.8
SSE	.1	.4	.5	2.6	.1	.6	.1	.4	.0	.1	.0	.0	.0	.0	.7	4.1	9.5
S	.1	.6	1.0	5.6	.2	1.3	.2	.9	.1	.4	.0	.1	.0	.0	1.6	8.8	10.4
SSW	.0	.3	.5	2.9	.2	.9	.1	.7	.1	.4	.0	.1	.0	.0	1.0	5.3	11.5
SW	.1	.3	.9	4.7	.2	1.3	.1	.5	.1	.3	.0	.1	.0	.0	1.3	7.3	10.6
WSW	.1	.4	.7	4.0	.3	1.4	.1	.8	.1	.5	.0	.0	.0	.0	1.3	7.3	11.2
W	.1	.3	1.1	5.9	.4	2.4	.3	1.6	.1	.7	.0	.1	.0	.0	2.0	11.1	11.8
WNW	.0	.2	.6	3.5	.3	1.8	.3	1.7	.2	.9	.0	.2	.0	.0	1.5	8.2	13.1
NW	.0	.2	.8	4.4	.4	2.0	.4	2.0	.2	.8	.0	.1	.0	.0	1.7	9.6	12.9
NNW	.0	.2	.5	2.9	.3	1.4	.2	1.0	.1	.5	.0	.2	.0	.0	1.1	6.1	12.6
CALM	.6	3.2													.6	3.2	
TOTAL	1.5	8.5	10.3	56.3	3.1	16.9	2.2	12.2	.9	5.1	.2	1.0	.0	.1	18.3	100	10.7

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: CAK AKRON, OH

PERIOD: 1949-1978

CLASS 3 / DAY

STATION NUMBER: 14895

NO. OBS.: 6810

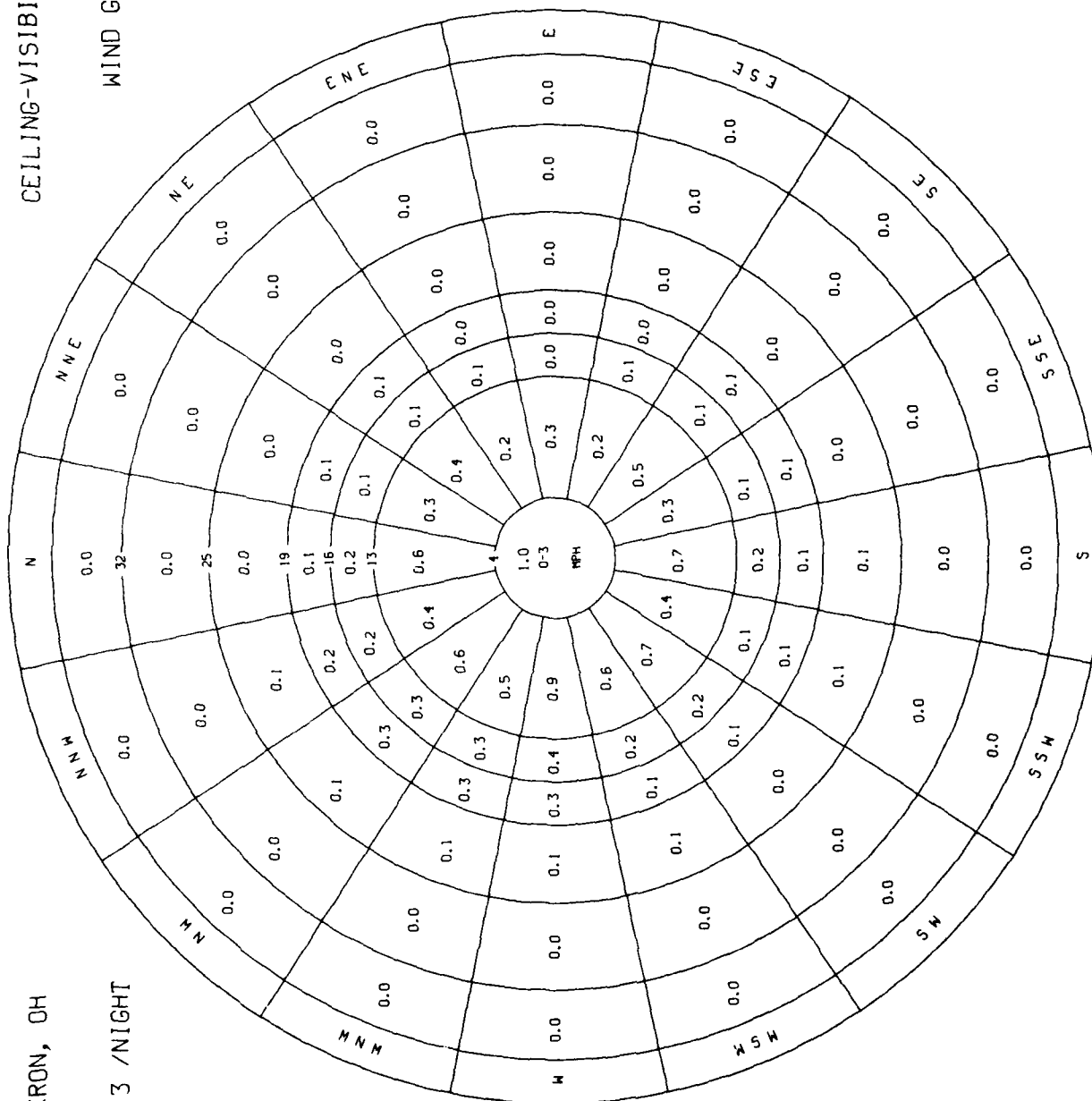
D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.3	.6	3.8	.2	1.2	.1	.9	.0	.3	.0	.1	.0	.0	.9	6.6	11.2
NNE	.0	.1	.3	2.3	.1	.7	.1	.4	.0	.1	.0	.0	.0	.0	.5	3.6	10.6
NE	.0	.2	.3	2.3	.1	.4	.0	.3	.0	.1	.0	.0	.0	.0	.5	3.3	9.9
ENE	.0	.1	.3	1.7	.1	.4	.0	.2	.0	.1	.0	.0	.0	.0	.4	2.5	10.1
E	.0	.3	.3	1.9	.0	.3	.0	.2	.0	.0	.0	.0	.0	.0	.4	2.7	9.3
ESE	.0	.2	.2	1.7	.1	.5	.1	.4	.0	.0	.0	.0	.0	.0	.4	2.8	10.2
SE	.1	.4	.5	3.6	.1	.7	.1	.5	.0	.1	.0	.0	.0	.0	.8	5.3	9.7
SSE	.0	.2	.4	2.9	.1	.5	.1	.5	.0	.1	.0	.0	.0	.0	.6	4.2	10.4
S	.1	.5	.8	5.7	.3	2.0	.2	1.4	.1	.4	.0	.0	.0	.0	1.4	9.9	11.2
SSW	.0	.2	.6	3.9	.2	1.5	.1	1.0	.1	.4	.0	.0	.0	.0	1.0	7.0	11.8
SW	.1	.4	.8	5.5	.2	1.5	.2	1.2	.1	.4	.0	.1	.0	.1	1.3	9.1	11.3
WSW	.0	.2	.6	4.5	.2	1.4	.2	1.1	.1	.5	.0	.1	.0	.0	1.1	7.9	11.8
W	.0	.2	.7	5.0	.3	2.0	.2	1.5	.1	.5	.0	.1	.0	.0	1.4	9.4	12.0
WNW	.0	.1	.5	3.8	.3	1.7	.3	1.9	.2	1.2	.0	.1	.0	.0	1.3	9.0	13.9
NW	.0	.2	.6	3.9	.3	1.9	.2	1.7	.2	1.4	.0	.2	.0	.1	1.4	9.4	14.1
NNW	.0	.1	.3	2.4	.2	1.5	.1	1.0	.1	.6	.0	.2	.0	.0	.8	5.7	13.4
CALM	.2	1.6													.2	1.6	
TOTAL	.7	5.1	7.9	54.9	2.6	18.4	2.0	14.1	.9	6.2	.1	1.0	.0	.3	14.4	100	11.5

CEILING-VISIBILITY

WIND GRAPH

CAK AKRON, OH

CLASS 3 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: CAK AKRON, OH

PERIOD: 1949-1978

CLASS 3 / NIGHT

STATION NUMBER: 14895

NO. OBS.: 5643

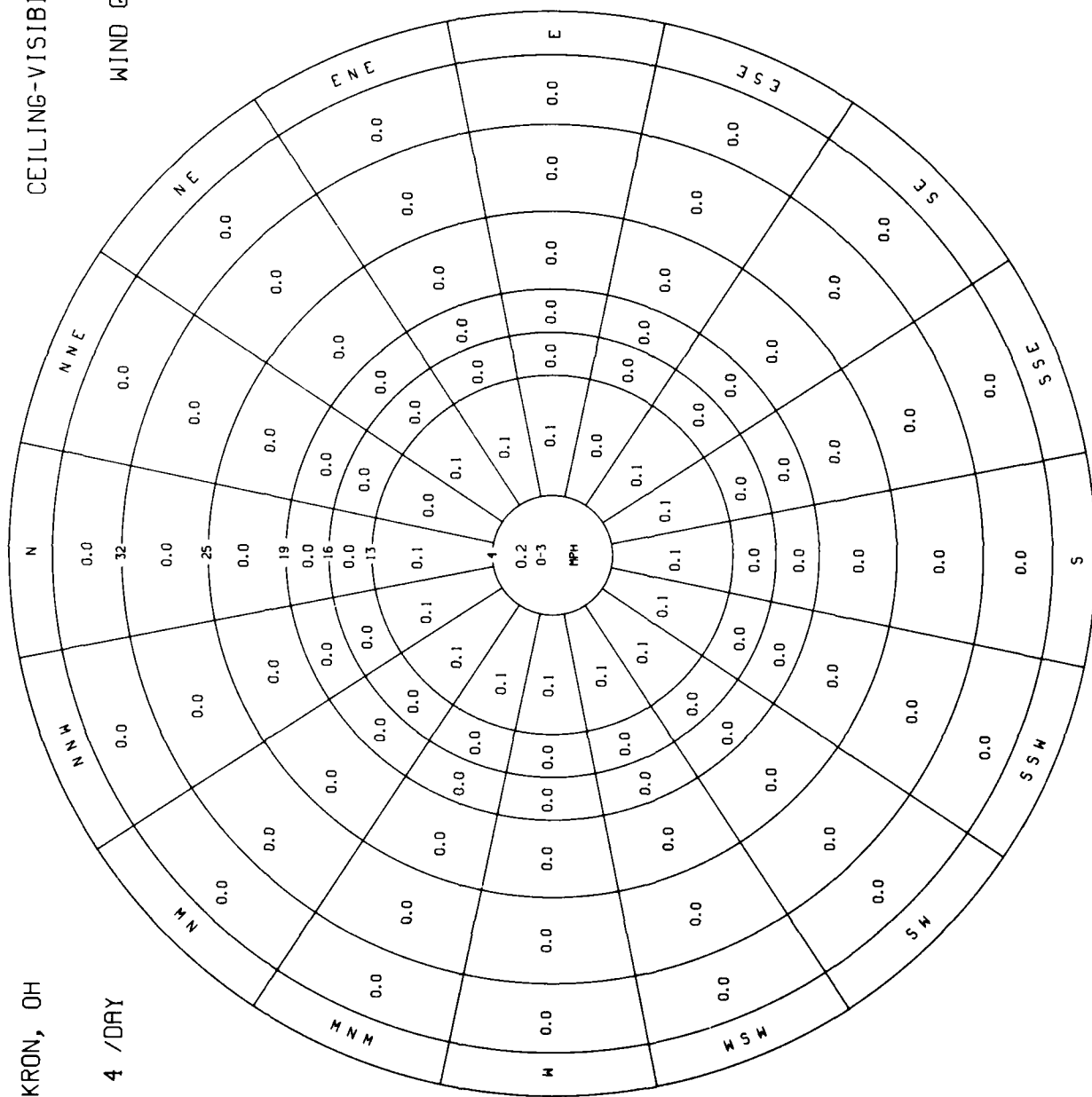
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.2	.6	4.6	.2	1.2	.1	.9	.0	.2	.0	.1	.0	.0	1.0 7.1 10.8
NNE	.0	.2	.3	2.1	.1	.6	.1	.5	.0	.1	.0	.0	.0	.0	.5 3.5 10.8
NE	.0	.2	.4	2.7	.1	.4	.1	.5	.0	.1	.0	.0	.0	.0	.5 3.9 10.0
ENE	.0	.3	.2	1.3	.1	.4	.0	.2	.0	.0	.0	.0	.0	.0	.3 2.2 9.6
E	.0	.2	.3	2.1	.0	.3	.0	.1	.0	.1	.0	.0	.0	.0	.4 2.7 9.2
ESE	.0	.2	.2	1.6	.1	.4	.0	.2	.0	.1	.0	.0	.0	.0	.3 2.5 9.2
SE	.1	.6	.5	3.4	.1	.6	.1	.5	.0	.1	.0	.0	.0	.0	.7 5.1 9.2
SSE	.0	.3	.3	2.0	.1	.6	.1	.4	.0	.1	.0	.0	.0	.0	.5 3.5 9.7
S	.1	.5	.7	4.9	.2	1.4	.1	1.0	.1	.4	.0	.1	.0	.0	1.2 8.4 11.0
SSW	.0	.2	.4	2.9	.1	1.0	.1	.9	.1	.4	.0	.1	.0	.0	.8 5.5 12.1
SW	.0	.3	.7	4.8	.2	1.5	.1	.6	.0	.3	.0	.1	.0	.0	1.1 7.6 10.8
WSW	.0	.3	.6	4.3	.2	1.7	.1	1.0	.1	.6	.0	.1	.0	.0	1.1 8.0 11.8
W	.0	.3	.9	6.1	.4	2.9	.3	2.0	.1	.8	.0	.1	.0	.0	1.7 12.2 12.3
WNW	.0	.2	.5	3.5	.3	2.1	.3	2.0	.1	1.0	.0	.2	.0	.0	1.3 9.0 13.6
NW	.0	.2	.6	4.4	.3	2.2	.3	2.2	.1	1.0	.0	.1	.0	.0	1.4 10.2 13.2
NNW	.0	.1	.4	2.7	.2	1.4	.2	1.2	.1	.5	.0	.2	.0	.0	.9 6.1 13.1
CALM	.4	2.6													.4 2.6
TOTAL	1.0	6.9	7.5	53.4	2.6	18.7	2.0	14.2	.8	5.6	.2	1.1	.0	.1	14.0 100 11.2

CEILING-VISIBILITY

WIND GRAPH

CAK AKRON, OH

CLASS 4 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: CAK AKRON, OH

PERIOD: 1949-1978

CLASS 4 / DAY

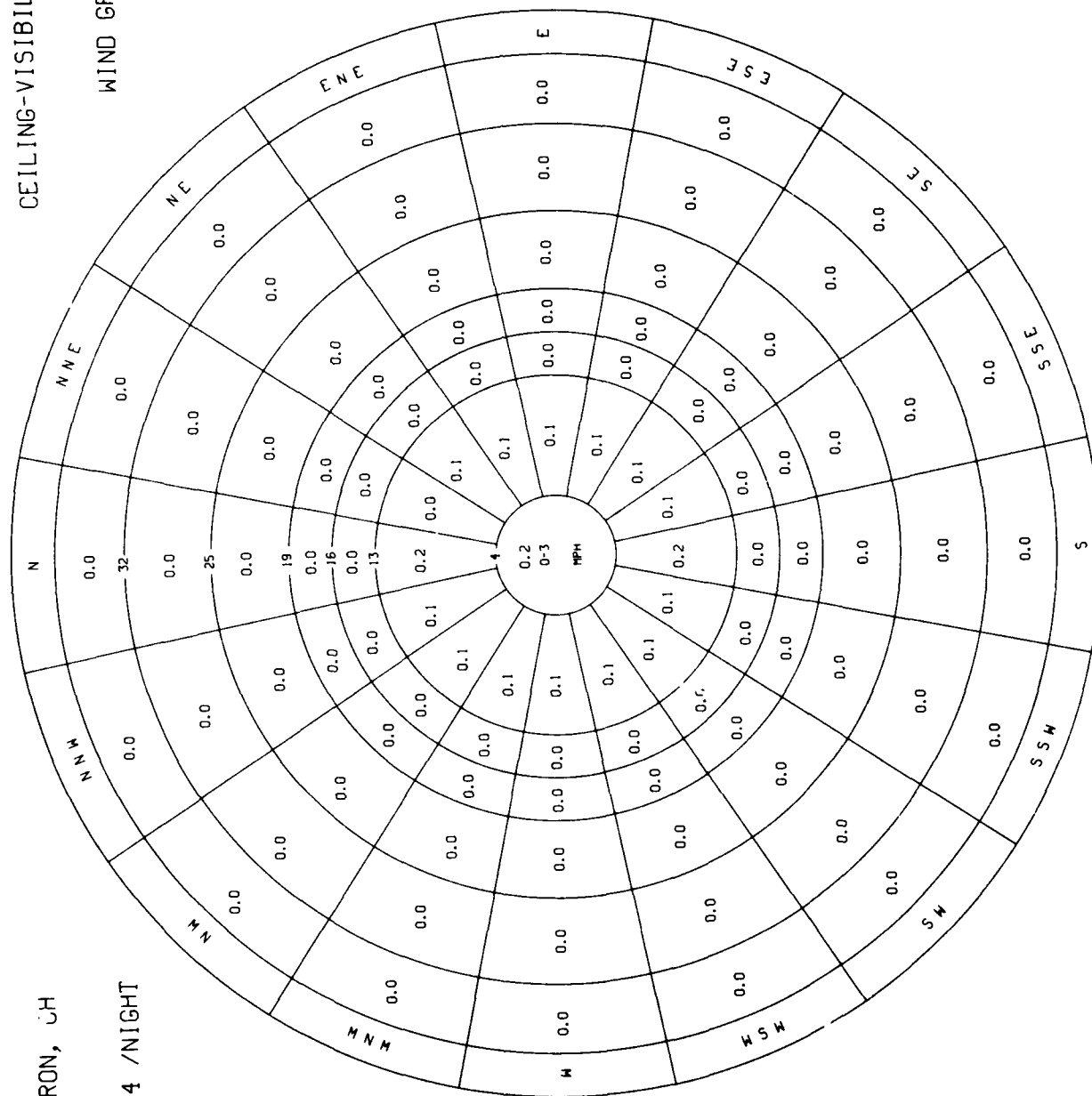
STATION NUMBER: 14895

NO. OBS.: 990

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.1	.1	5.3	.0	1.1	.0	1.2	.0	.0	.0	.0	.0	.1	.2 7.8
NNE	.0	.2	.0	2.3	.0	.5	.0	.3	.0	.1	.0	.0	.0	.0	.1 3.4
NE	.0	.5	.1	3.0	.0	.8	.0	.7	.0	.1	.0	.0	.0	.0	.1 5.2
ENE	.0	.2	.1	3.8	.0	.7	.0	.3	.0	.3	.0	.0	.0	.0	.1 5.4
E	.0	.2	.1	6.5	.0	.4	.0	.3	.0	.3	.0	.0	.0	.0	.2 7.7
ESE	.0	.5	.0	1.4	.0	.1	.0	.3	.0	.1	.0	.0	.0	.0	.1 2.4
SE	.0	.9	.1	4.6	.0	1.1	.0	.2	.0	.0	.0	.0	.0	.0	.1 6.9
SSE	.0	.0	.1	3.3	.0	1.0	.0	.3	.0	.2	.0	.0	.0	.0	.1 4.8
S	.0	.7	.1	6.2	.0	1.1	.0	.4	.0	.4	.0	.0	.0	.0	.2 8.8
SSW	.0	.4	.1	3.5	.0	1.0	.0	.5	.0	.3	.0	.0	.0	.0	.1 5.8
SW	.0	.4	.1	4.0	.0	.7	.0	.5	.0	.1	.0	.0	.0	.1	.1 5.9
WSW	.0	.2	.1	3.6	.0	.8	.0	.3	.0	.1	.0	.0	.0	.0	.1 5.1
W	.0	.4	.1	4.6	.0	.7	.0	1.0	.0	.4	.0	.0	.0	.0	.1 7.2
WNW	.0	.3	.1	2.4	.0	1.2	.0	1.2	.0	.7	.0	.2	.0	.1	.1 6.2
NW	.0	.4	.1	4.0	.0	2.1	.0	1.8	.0	.6	.0	.0	.0	.0	.2 9.0
NNW	.0	.1	.1	2.5	.0	1.6	.0	1.0	.0	.3	.0	.0	.0	.0	.1 5.6
CALM	.1	3.1													.1 3.1
TOTAL	.2	8.7	1.3	61.3	.3	15.1	.2	10.4	.1	4.0	.0	.2	.0	.3	2.1 100 10.3

CAK AKRON, OH

CLASS 4 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: CAK AKRON, OH

PERIOD: 1949-1978

CLASS 4 / NIGHT

STATION NUMBER: 14895

NO. OBS.: 1015

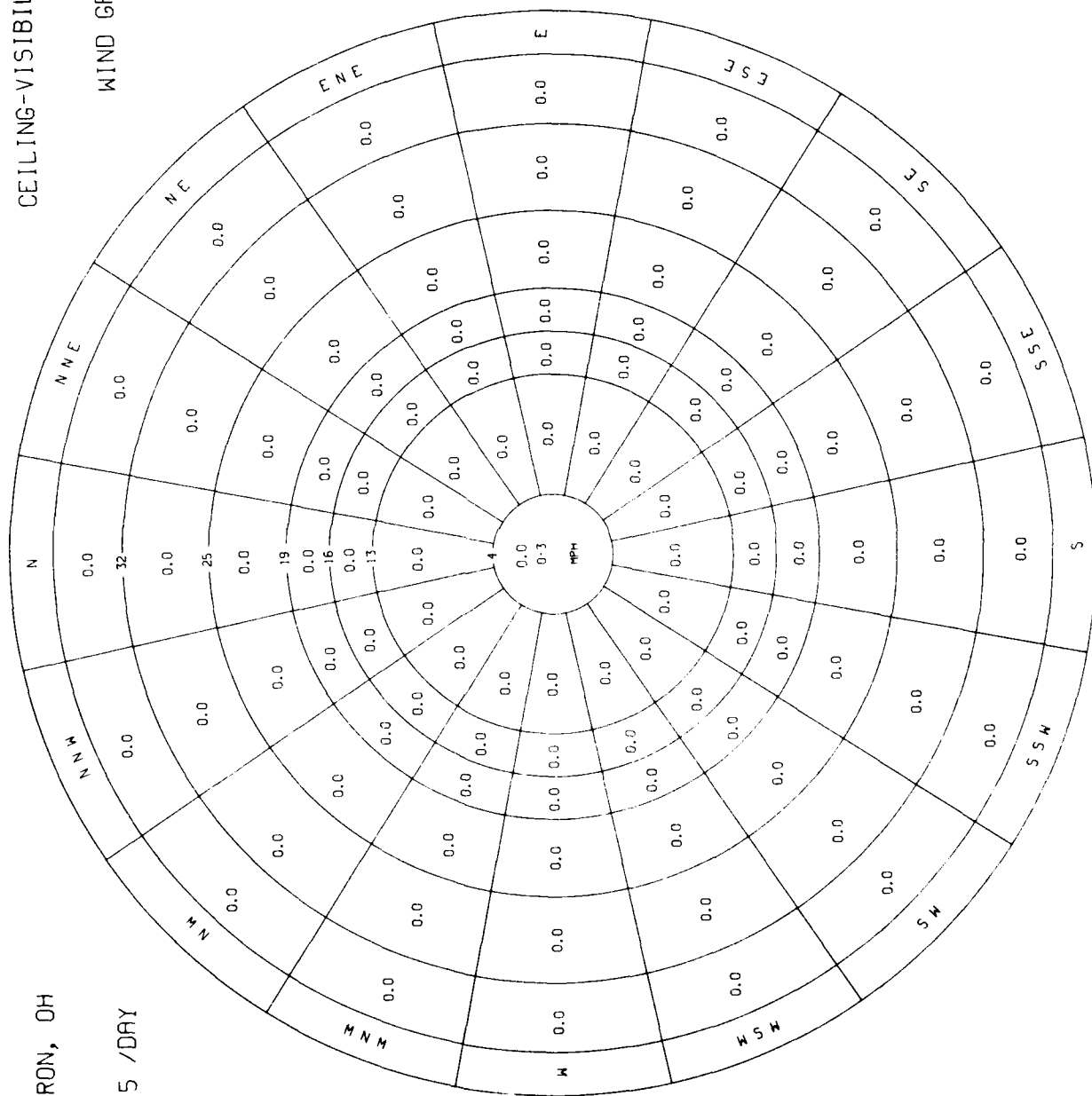
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.7	.2	7.1	.0	1.3	.0	1.3	.0	.4	.0	.0	.0	.0	3.10.7
NNE	.0	.3	.0	1.7	.0	.3	.0	.4	.0	.2	.0	.0	.0	.0	.1 2.9
NE	.0	.5	.1	4.3	.0	.4	.0	.2	.0	.1	.0	.0	.0	.0	.1 5.5
ENE	.0	.4	.1	2.5	.0	.5	.0	.2	.0	.4	.0	.1	.0	.0	.1 4.0
E	.0	.2	.1	3.2	.0	.3	.0	.2	.0	.0	.0	.1	.0	.0	.1 3.9
ESE	.0	.6	.1	2.6	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.1 3.8
SE	.0	.6	.1	4.4	.0	.8	.0	.6	.0	.1	.0	.0	.0	.0	.2 6.5
SSE	.0	.5	.1	3.6	.0	.9	.0	.5	.0	.2	.0	.1	.0	.0	.1 5.8
S	.0	.8	.2	6.0	.0	1.0	.0	.7	.0	.2	.0	.0	.0	.0	.2 8.7
SSW	.0	.2	.1	3.3	.0	.7	.0	.0	.0	.3	.0	.0	.0	.0	.1 4.5
SW	.0	.1	.1	3.9	.0	1.0	.0	.2	.0	.3	.0	.1	.0	.0	.1 5.6
WSW	.0	1.0	.1	2.7	.0	.9	.0	.3	.0	.2	.0	.0	.0	.0	.1 5.0
W	.0	.4	.1	5.6	.0	.7	.0	.5	.0	.5	.0	.1	.0	.0	.2 7.8
WNW	.0	.3	.1	3.4	.0	.9	.0	.7	.0	.4	.0	.1	.0	.0	.1 5.8
NW	.0	.4	.1	4.7	.0	1.9	.0	1.6	.0	.8	.0	.2	.0	.1	.2 9.7
NNW	.0	.2	.1	4.1	.0	1.6	.0	.7	.0	.5	.0	.0	.0	.0	.2 7.1
CALM	.1	2.6													.1 2.6
TOTAL	.2	9.7	1.6	63.3	.3	13.7	.2	8.0	.1	4.5	.0	.8	.0	.1	2.5 100
															9.8

CEILING-VISIBILITY

WIND GRAPH

CAK AKRON, OH

CLASS 5 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME:CAK AKRON, OH

PERIOD: 1949-1978

CLASS 5 / DAY

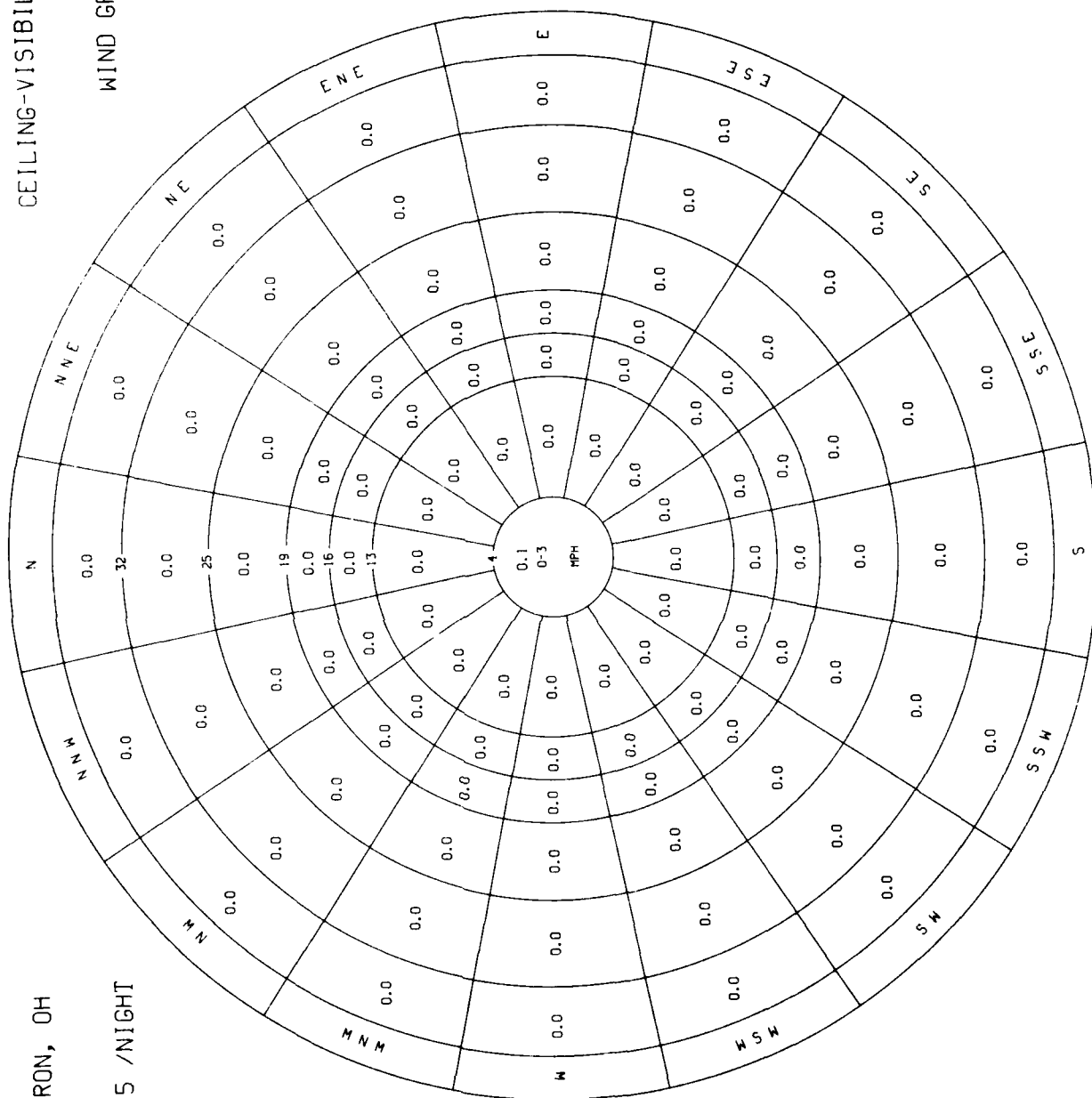
STATION NUMBER: 14895

NO. OBS.: 206

D I R	SPEED GROUPS (MPH)																		AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL				
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D			
N	.0	.5	.0	6.3	.0	.5	.0	1.0	.0	.0	.0	.0	.0	.0	.0	8.3		9.0	
NNE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
NE	.0	.0	.0	5.3	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.8		7.5	
ENE	.0	.0	.0	4.9	.0	.5	.0	.0	.0	1.0	.0	.0	.0	.0	.0	6.3		9.7	
E	.0	.0	.0	3.4	.0	.5	.0	.0	.0	.5	.0	.0	.0	.0	.0	4.4		10.7	
ESE	.0	.0	.0	3.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.9		7.5	
SE	.0	1.0	.0	6.3	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.8		7.6	
SSE	.0	1.0	.0	6.8	.0	1.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	9.7		9.4	
S	.0	.5	.0	10.2	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.1	12.1		9.0	
SSW	.0	1.0	.0	2.4	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	3.9		8.8	
SW	.0	.5	.0	4.4	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.8		10.8	
WSW	.0	.5	.0	2.9	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	3.9		8.5	
W	.0	1.0	.0	4.4	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.8		7.4	
WNW	.0	.5	.0	2.4	.0	.5	.0	.0	.0	.5	.0	.5	.0	.0	.0	4.4		12.3	
NW	.0	.0	.0	3.9	.0	1.0	.0	.5	.0	1.0	.0	.5	.0	.5	.0	7.3		14.7	
NNW	.0	.0	.0	4.9	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.3		8.6	
CALM	.0	4.4													.0	4.4			
TOTAL	.0	10.7	.3	72.3	.0	8.7	.0	2.9	.0	2.9	.0	1.5	.0	1.0	.4	10.0		9.0	

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: CAK AKRON, OH

PERIOD: 1949-1978

CLASS 5 / NIGHT

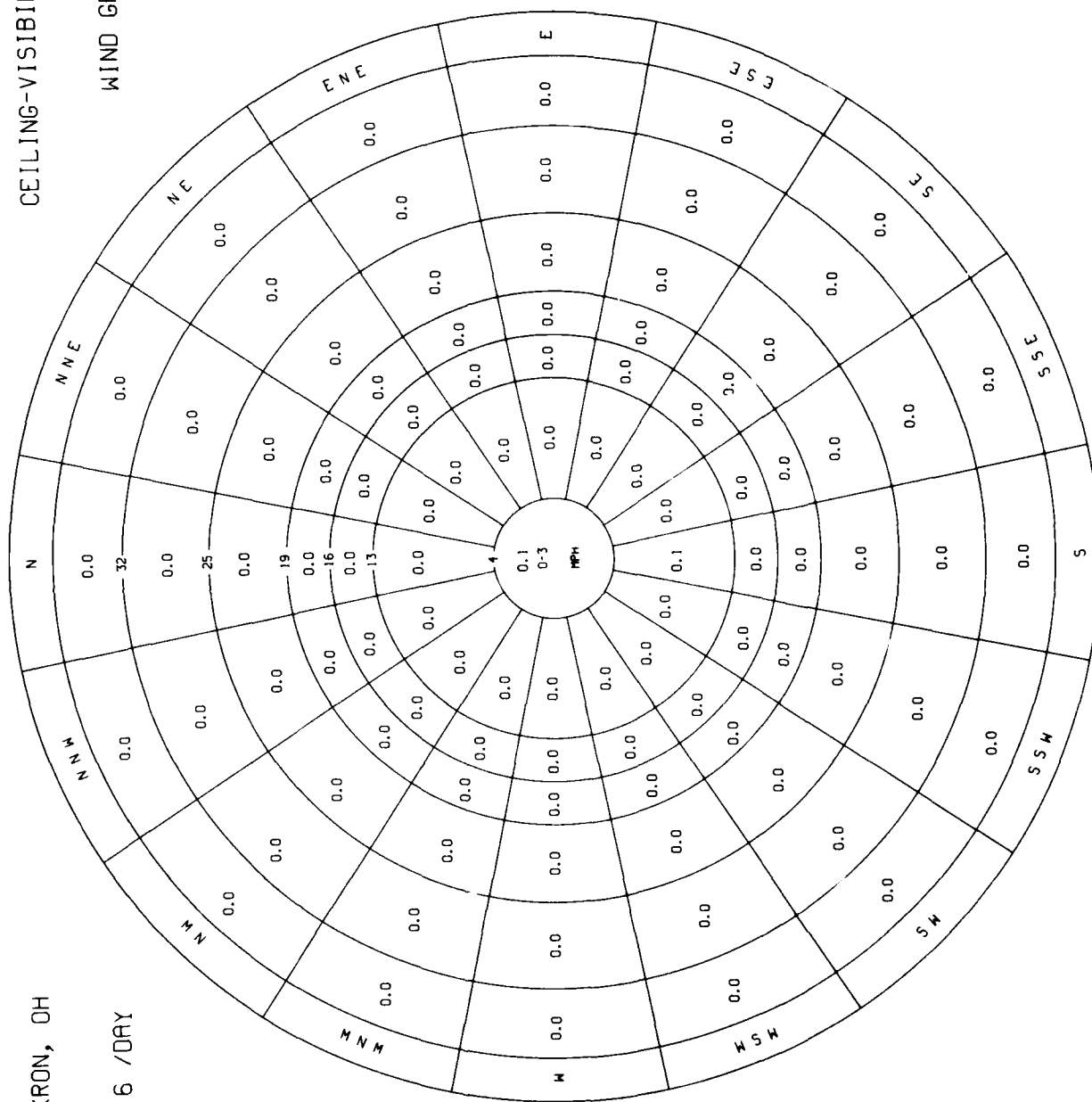
STATION NUMBER: 14895

NO. OBS.: 301

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.3	.0	5.0	.0	.3	.0	.3	.0	.3	.0	.0	.0	.0	.0 6.3
NNE	.0	.0	.0	3.7	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0 4.0
NE	.0	.3	.0	5.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 5.3
ENE	.0	.7	.0	5.6	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0 6.6
E	.0	.7	.0	4.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 5.0
ESE	.0	.3	.0	1.7	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.3
SE	.0	.7	.0	4.3	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0 6.3
SSE	.0	.7	.0	4.0	.0	.3	.0	1.0	.0	.0	.0	.0	.0	.0	.0 6.0
S	.0	1.0	.0	6.6	.0	.7	.0	.3	.0	.0	.0	.0	.0	.0	.1 8.6
SSW	.0	.3	.0	3.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.7
SW	.0	.3	.0	5.0	.0	.7	.0	.0	.0	1.3	.0	.0	.0	.3	.1 7.6
WSW	.0	1.0	.0	5.6	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.1 7.0
W	.0	.3	.0	4.7	.0	1.3	.0	.7	.0	.0	.0	.0	.0	.0	.1 7.0
WNW	.0	.0	.0	6.3	.0	1.3	.0	.0	.0	.7	.0	.0	.0	.0	.1 8.3
NW	.0	.0	.0	4.0	.0	1.0	.0	.3	.0	.0	.0	.0	.0	.0	.0 5.3
NNW	.0	.0	.0	2.3	.0	2.7	.0	.0	.0	.3	.0	.0	.0	.0	.0 5.3
CALM	.0	5.3													.0 5.3
TOTAL	.1	12.0	.5	71.1	.1	11.3	.0	2.7	.0	2.7	.0	.0	.0	.3	.7 100

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: CAK AKRON, OH

PERIOD: 1949-1978

CLASS 6 / DAY

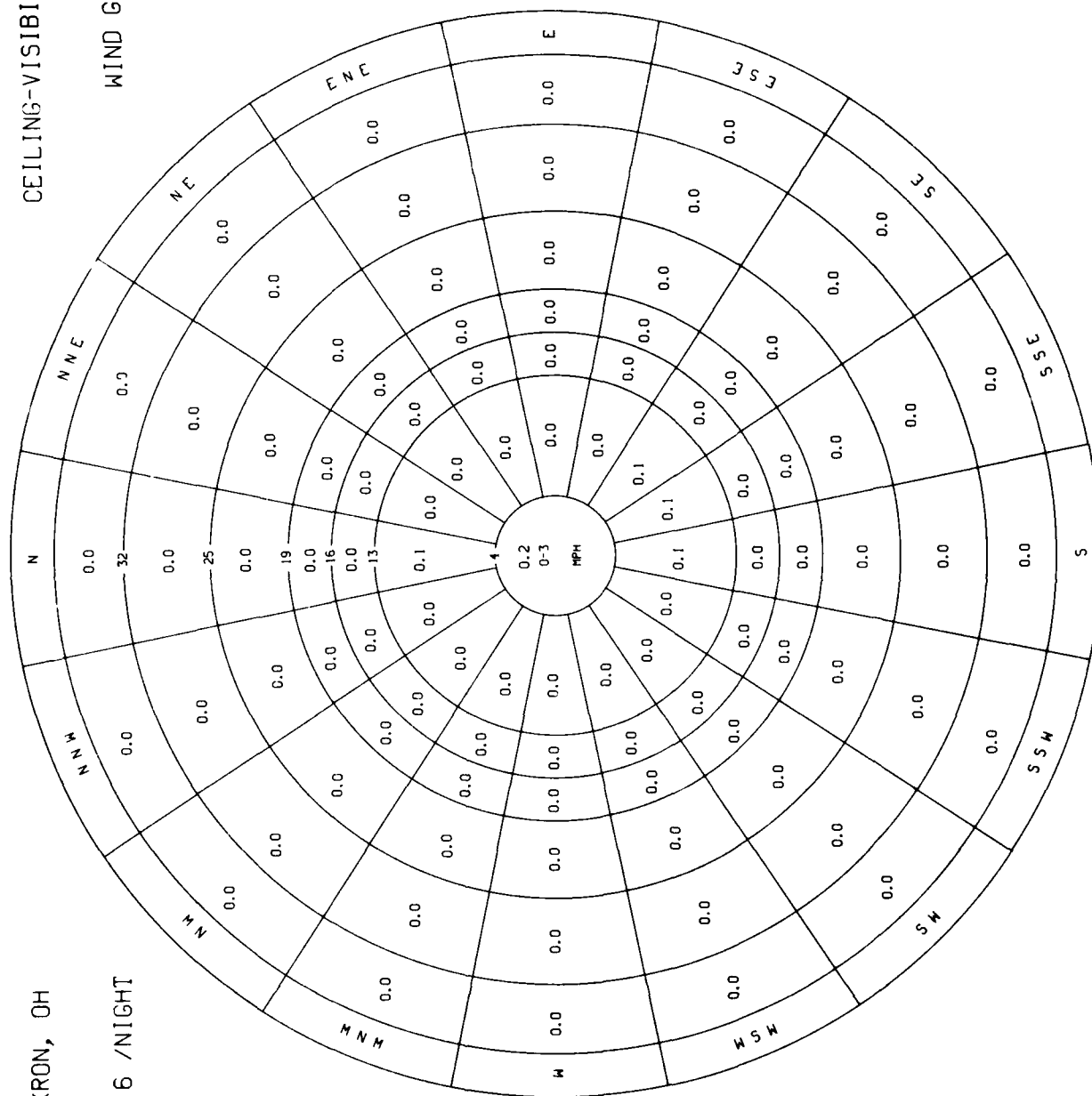
STATION NUMBER: 14895

NO. OBS.: 258

O I R	SPEED GROUPS (MPH)														AVG WIND SPEED			
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C	D
N	.0	1.2	.0	3.1	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	4.7	6.7
NNE	.0	.0	.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	6.6
NE	.0	.4	.0	5.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.4	6.3
ENE	.0	.4	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	7.1
E	.0	.8	.0	2.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5	6.8
ESE	.0	.8	.0	3.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.7	7.2
SE	.0	1.6	.0	6.2	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.1	6.3
SSE	.0	.0	.0	6.2	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.4	8.7
S	.0	1.6	.1	16.3	.0	2.7	.0	.0	.0	.0	.0	.0	.0	.0	.1	20.5	8.2	
SSW	.0	1.2	.0	3.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.0	6.5	
SW	.0	.0	.0	6.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	6.6	8.9
WSW	.0	.4	.0	1.9	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.4	.0	3.5	11.9
W	.0	.8	.0	2.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5	6.3
WNW	.0	.4	.0	3.9	.0	.4	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	5.0	9.8
NW	.0	1.2	.0	3.1	.0	.8	.0	.0	.0	.0	.0	.4	.0	.4	.0	.0	5.8	12.0
NNW	.0	.4	.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5	7.0
CALM	.0	7.0													.0	7.0		
TOTAL	.1	17.8	.4	73.6	.0	5.4	.0	.8	.0	.4	.0	.8	.0	1.2	.5	100	7.5	

CAK AKRON, OH

CLASS 6 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: CAK AKRON, OH

PERIOD: 1949-1978

CLASS 6 / NIGHT

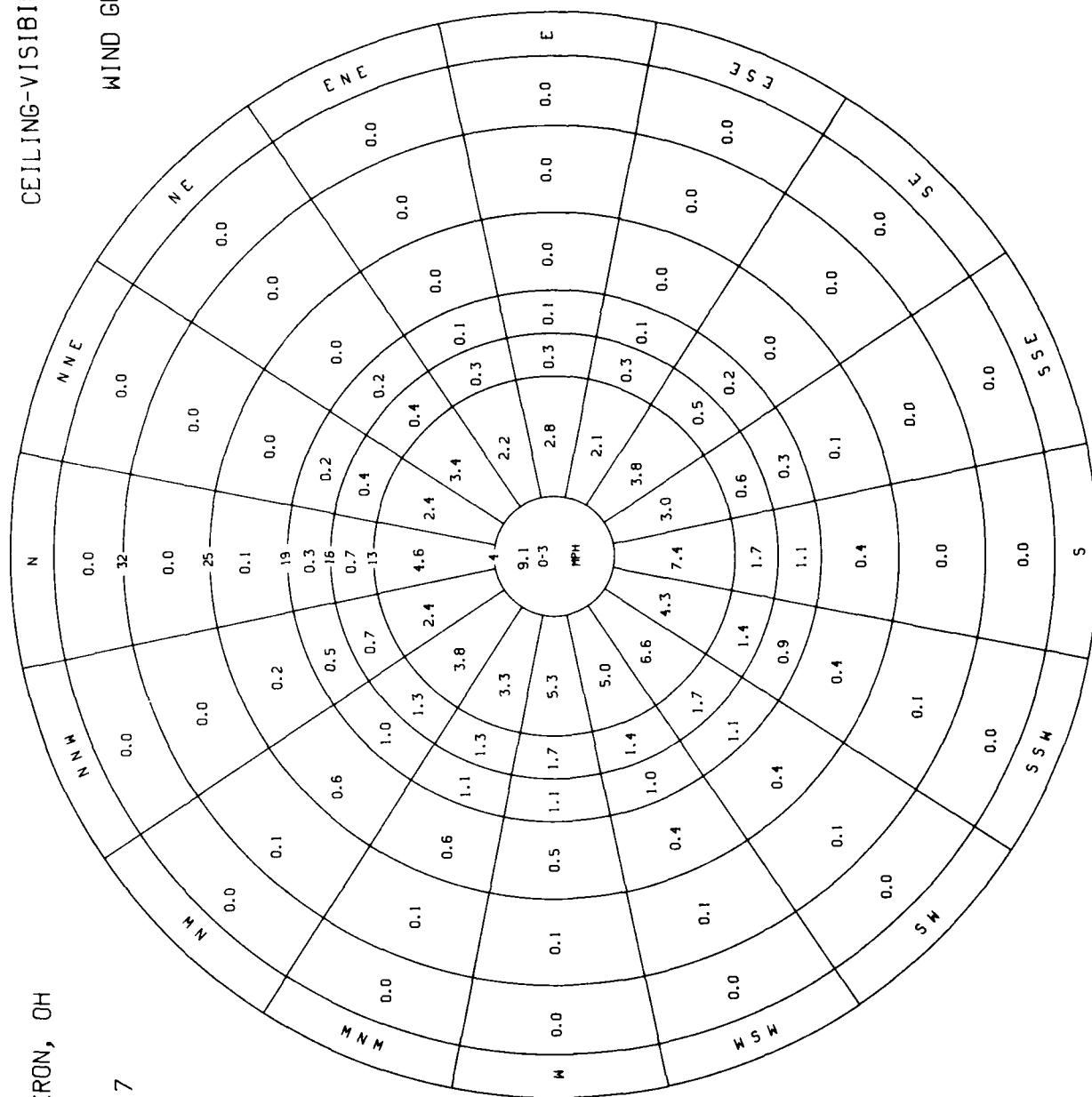
STATION NUMBER: 14895

NO. OBS.: 374

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED			
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B		C	D	
N	.0	1.1	.1	8.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	9.6	6.8
NNE	.0	.5	.0	2.7	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5	6.7
NE	.0	.0	.0	1.9	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4	9.8
ENE	.0	1.1	.0	1.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	2.7	6.5
E	.0	.8	.0	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7	7.3
ESE	.0	.8	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4	5.9
SE	.0	2.7	.1	8.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	10.7	6.2
SSE	.0	1.1	.1	6.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	7.8	7.0
S	.0	1.1	.1	13.1	.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	.1	15.2	8.2
SSW	.0	1.6	.0	2.9	.0	.5	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	5.3	7.8
SW	.0	1.3	.0	4.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	6.1	6.0
WSW	.0	.3	.0	1.9	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	2.7	9.3
W	.0	.5	.0	4.8	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	5.6	7.2
WNW	.0	.3	.0	1.9	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	2.7	8.7
NW	.0	.0	.0	3.5	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7	7.9
NNW	.0	.8	.0	2.7	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7	6.5
CALM	.1	12.0														.1	12.0	
TOTAL	.2	25.9	.6	69.3	.0	3.2	.0	1.1	.0	.5	.0	.0	.0	.0	.0	.9	100	6.4

CAK AKRON, OH

CLASS 7

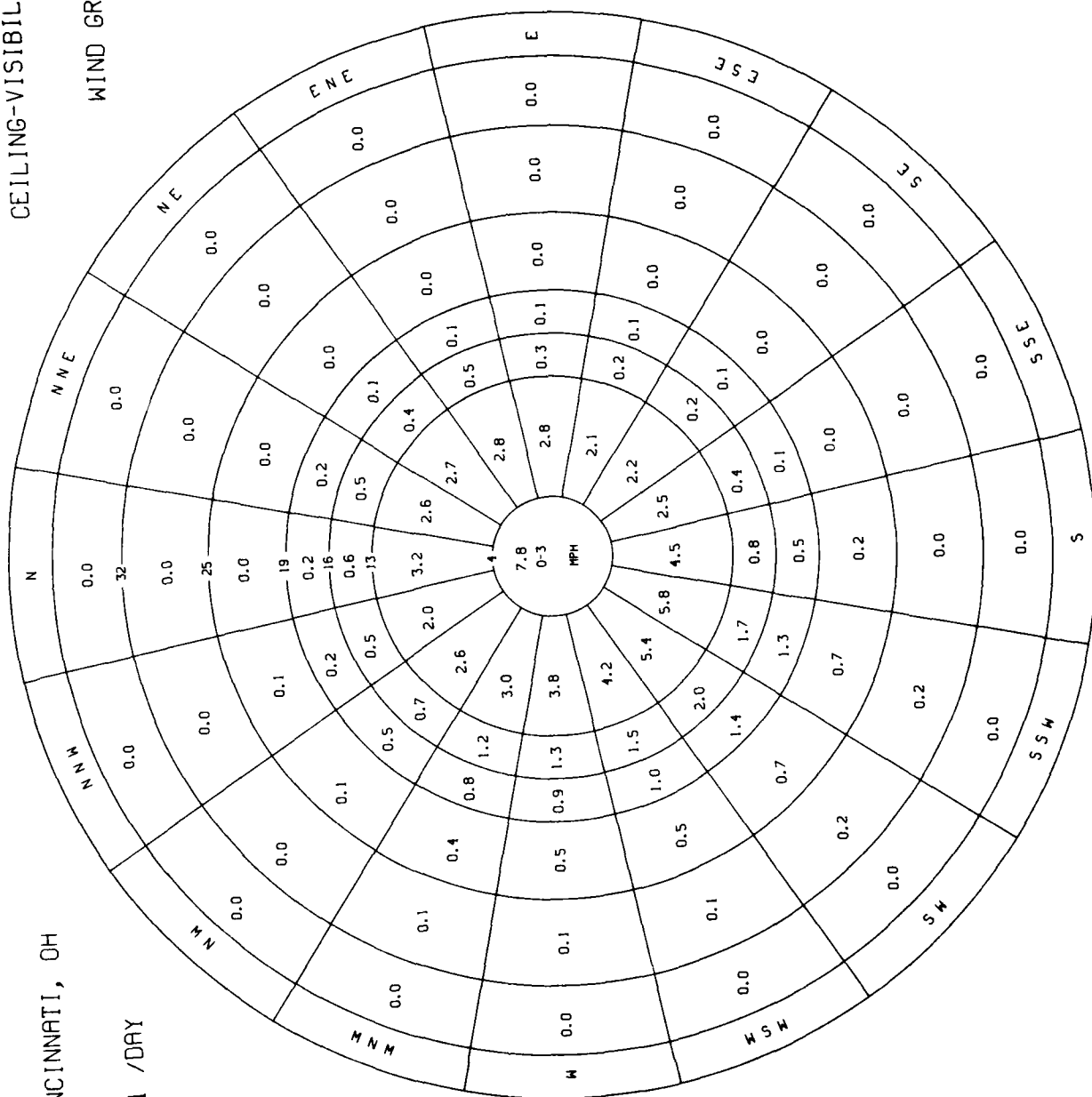


CEILING-VISIBILITY

WIND GRAPH

CVG CINCINNATI, OH

CLASS 1 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: CVG CINCINNATI, OH

PERIOD: 1948-1978

CLASS 1 / DAY

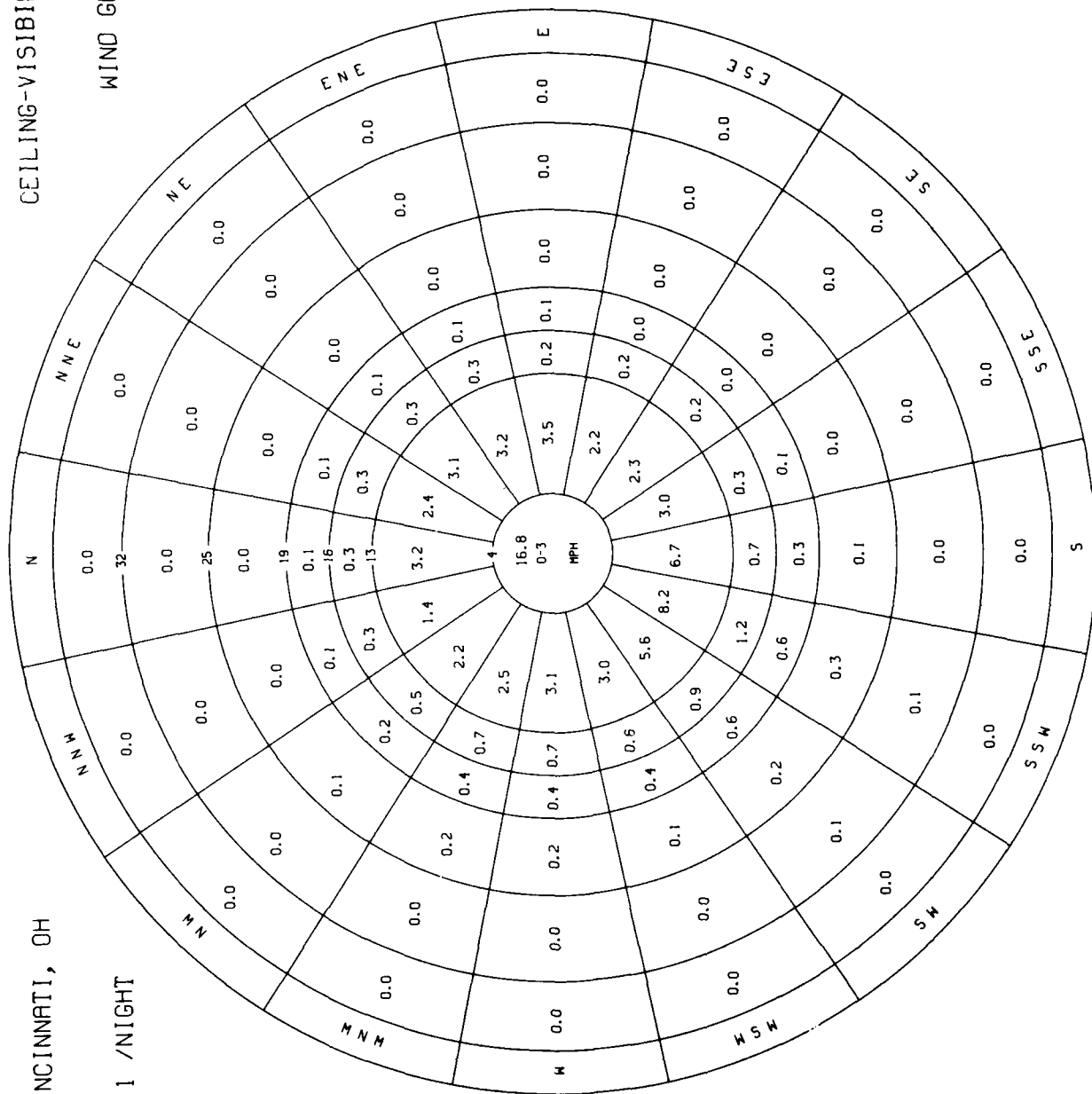
STATION NUMBER: 93814

NO. OBS.: 41441

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.4	.5	3.2	3.8	.6	.7	.2	.2	.0	.0	.0	.0	.0	.0	4.4	5.3	8.9
NNE	.3	.4	2.6	3.1	.5	.6	.2	.2	.0	.0	.0	.0	.0	.0	3.7	4.4	9.0
NE	.4	.4	2.7	3.2	.4	.5	.1	.2	.0	.0	.0	.0	.0	.0	3.7	4.4	8.5
ENE	.3	.4	2.8	3.3	.5	.6	.1	.2	.0	.0	.0	.0	.0	.0	3.8	4.5	8.7
E	.4	.4	2.8	3.3	.3	.4	.1	.1	.0	.0	.0	.0	.0	.0	3.6	4.2	8.1
ESE	.3	.3	2.1	2.5	.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	2.7	3.2	8.0
SE	.4	.4	2.2	2.6	.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	2.9	3.4	7.9
SSE	.4	.4	2.5	2.9	.4	.4	.1	.2	.0	.1	.0	.0	.0	.0	3.4	4.0	8.6
S	.6	.8	4.5	5.3	.8	.9	.5	.5	.2	.2	.0	.0	.0	.0	6.5	7.7	9.2
SSW	.5	.7	5.8	6.8	1.7	2.1	1.3	1.5	.7	.8	.2	.2	.0	.0	10.2	12.1	11.4
SW	.6	.7	5.4	6.3	2.0	2.4	1.4	1.7	.7	.8	.2	.2	.0	.0	10.2	12.1	11.7
WSW	.4	.4	4.2	5.0	1.5	1.8	1.0	1.1	.5	.6	.1	.1	.0	.0	7.7	9.1	11.6
W	.3	.4	3.8	4.5	1.3	1.6	.9	1.1	.5	.6	.1	.1	.0	.0	6.9	8.2	11.6
WNW	.3	.3	3.0	3.6	1.2	1.4	.8	.9	.4	.5	.1	.1	.0	.0	5.8	6.8	11.7
NW	.3	.3	2.6	3.1	.7	.9	.5	.5	.1	.1	.0	.0	.0	.0	4.1	4.9	10.2
NNW	.2	.2	2.0	2.3	.5	.6	.2	.3	.1	.1	.0	.0	.0	.0	2.9	3.5	9.8
CALM	1.8	2.2													1.8	2.2	
TOTAL	7.8	9.3	52.1	61.8	12.9	15.3	7.5	8.9	3.3	3.9	.7	.8	.1	.1	84.4	100	10.0

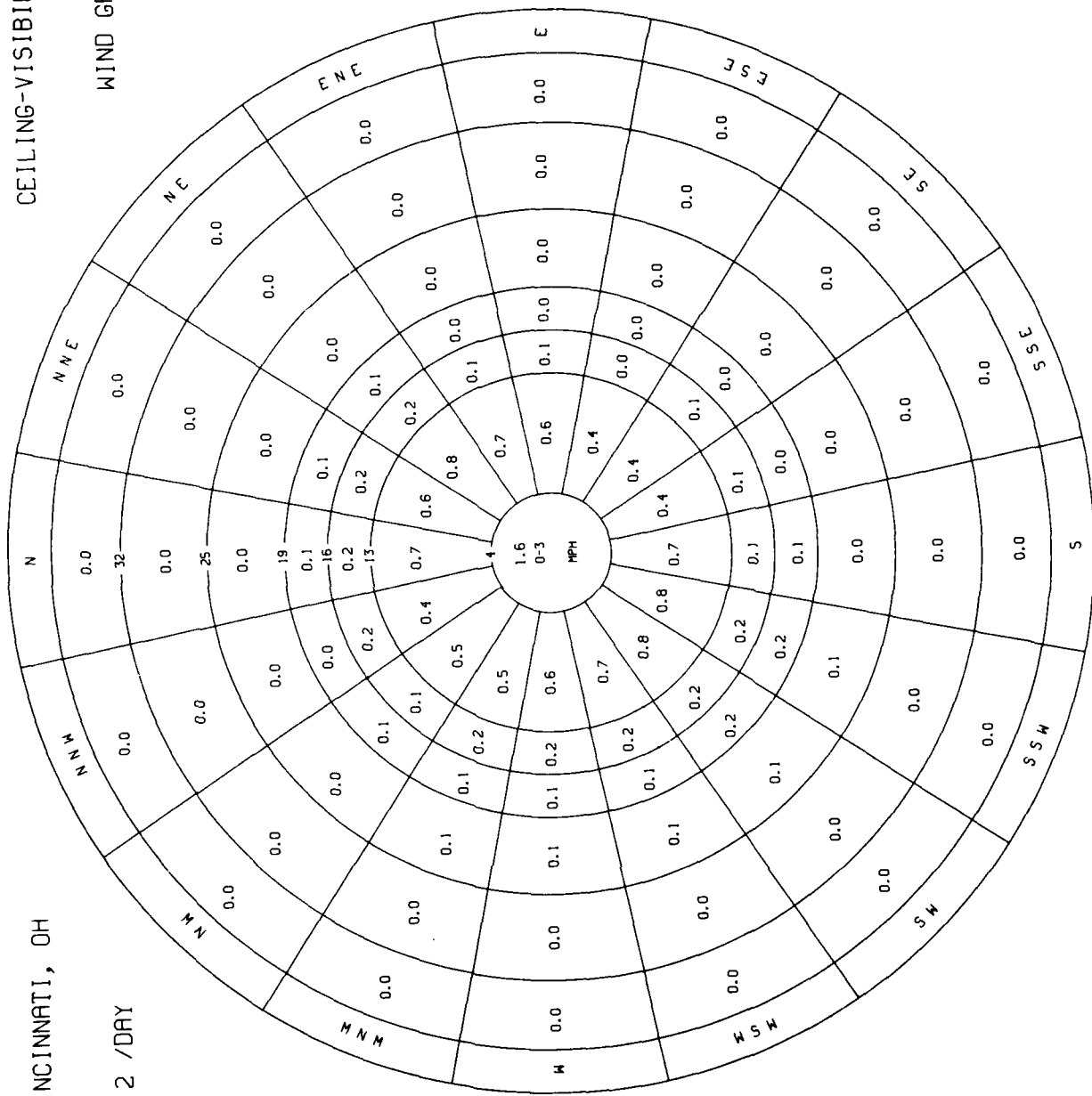
CEILING-VISIBILITY
WIND GRAPH

CVG CINCINNATI, OH
CLASS 1 /NIGHT



CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: CVG CINCINNATI, OH

CLASS 2 / DAY

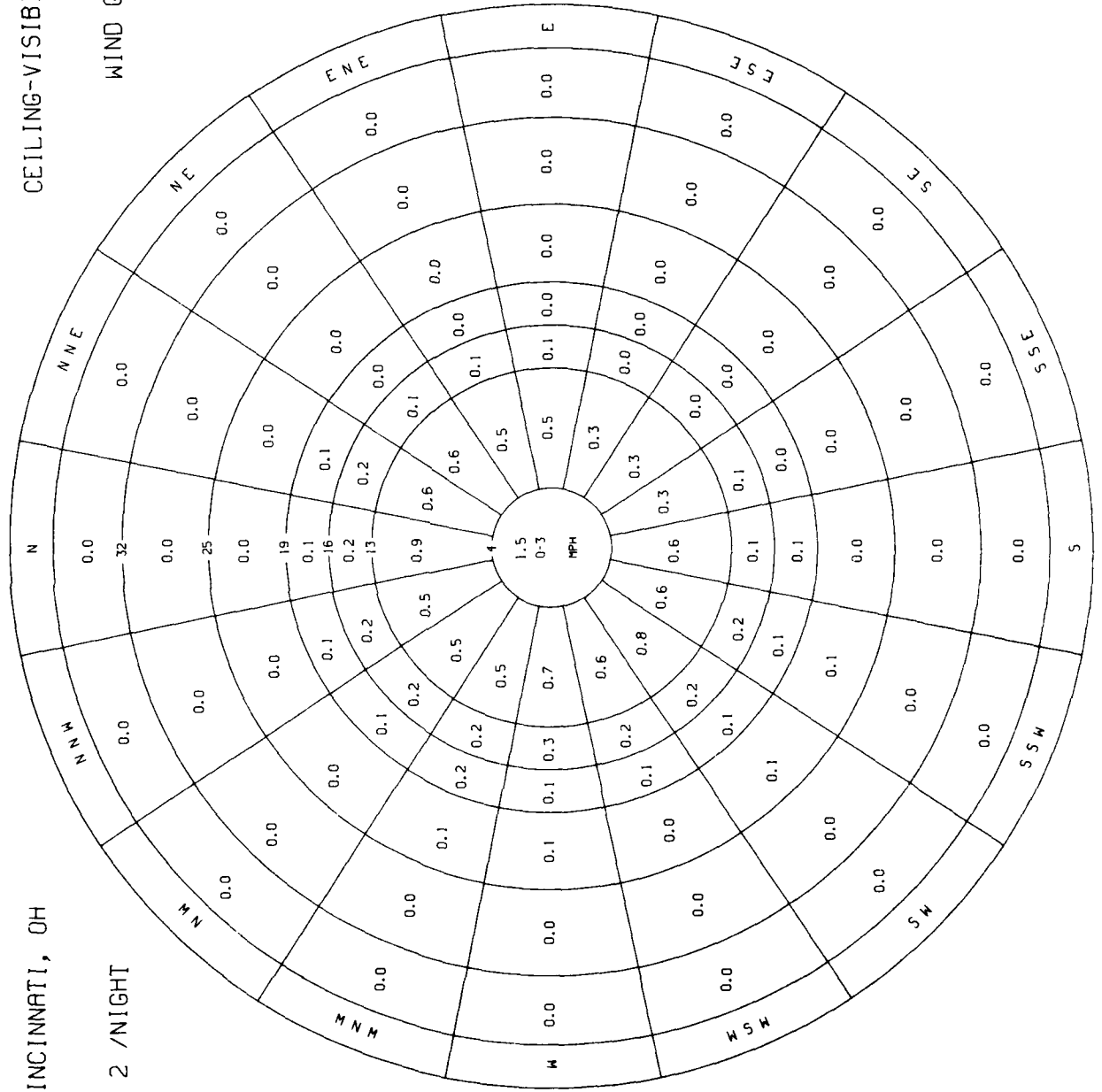
NO. OBS.: 7662

STATION NUMBER: 93814

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.1	.5	.7	4.7	.2	1.1	.1	.5	.0	.1	.0	.0	.0	.0	1.1	6.9	9.7
NNE	.1	.5	.6	3.7	.2	1.0	.1	.4	.0	.2	.0	.0	.0	.0	.9	5.7	9.7
NE	.1	.9	.8	4.9	.2	1.0	.1	.4	.0	.1	.0	.0	.0	.0	1.1	7.3	8.8
ENE	.1	.7	.7	4.7	.1	.6	.0	.3	.0	.1	.0	.0	.0	.0	1.0	6.4	8.4
E	.1	.6	.6	4.0	.1	.6	.0	.1	.0	.0	.0	.0	.0	.0	.8	5.3	8.1
ESE	.0	.3	.4	2.6	.0	.3	.0	.2	.0	.0	.0	.0	.0	.0	.5	3.4	8.5
SE	.0	.2	.4	2.5	.1	.4	.0	.1	.0	.0	.0	.0	.0	.0	.5	3.3	9.0
SSE	.1	.4	.4	2.6	.1	.4	.0	.2	.0	.0	.0	.0	.0	.0	.6	3.6	9.1
S	.1	.7	.7	4.5	.1	.8	.1	.5	.0	.2	.0	.0	.0	.0	1.1	6.7	9.3
SSW	.1	.5	.8	5.0	.2	1.4	.2	1.1	.1	.6	.0	.2	.0	.0	1.4	8.8	11.4
SW	.1	.6	.8	5.1	.2	1.5	.2	1.0	.1	.5	.0	.1	.0	.0	1.4	8.8	10.9
WSW	.1	.4	.7	4.2	.2	1.3	.1	.8	.1	.3	.0	.2	.0	.0	1.1	7.3	11.3
W	.1	.5	.6	3.9	.2	1.3	.1	.9	.1	.6	.0	.1	.0	.0	1.2	7.4	11.6
WNW	.0	.2	.5	3.3	.2	1.5	.1	.8	.1	.4	.0	.1	.0	.0	1.0	6.4	12.2
NW	.0	.3	.5	3.3	.1	.9	.1	.6	.0	.2	.0	.1	.0	.0	.8	5.3	10.7
NNW	.0	.2	.4	2.9	.2	1.0	.0	.3	.0	.2	.0	.0	.0	.0	.7	4.6	10.7
CALM	.5	2.9													.5	2.9	
TOTAL	1.6	10.2	9.6	61.6	2.4	15.3	1.3	8.3	.6	3.6	.1	.8	.0	.1	15.6	100	9.8

CVG CINCINNATI, OH

CLASS 2 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: CVG CINCINNATI, OH

PERIOD: 1948-1978

CLASS 2 / NIGHT

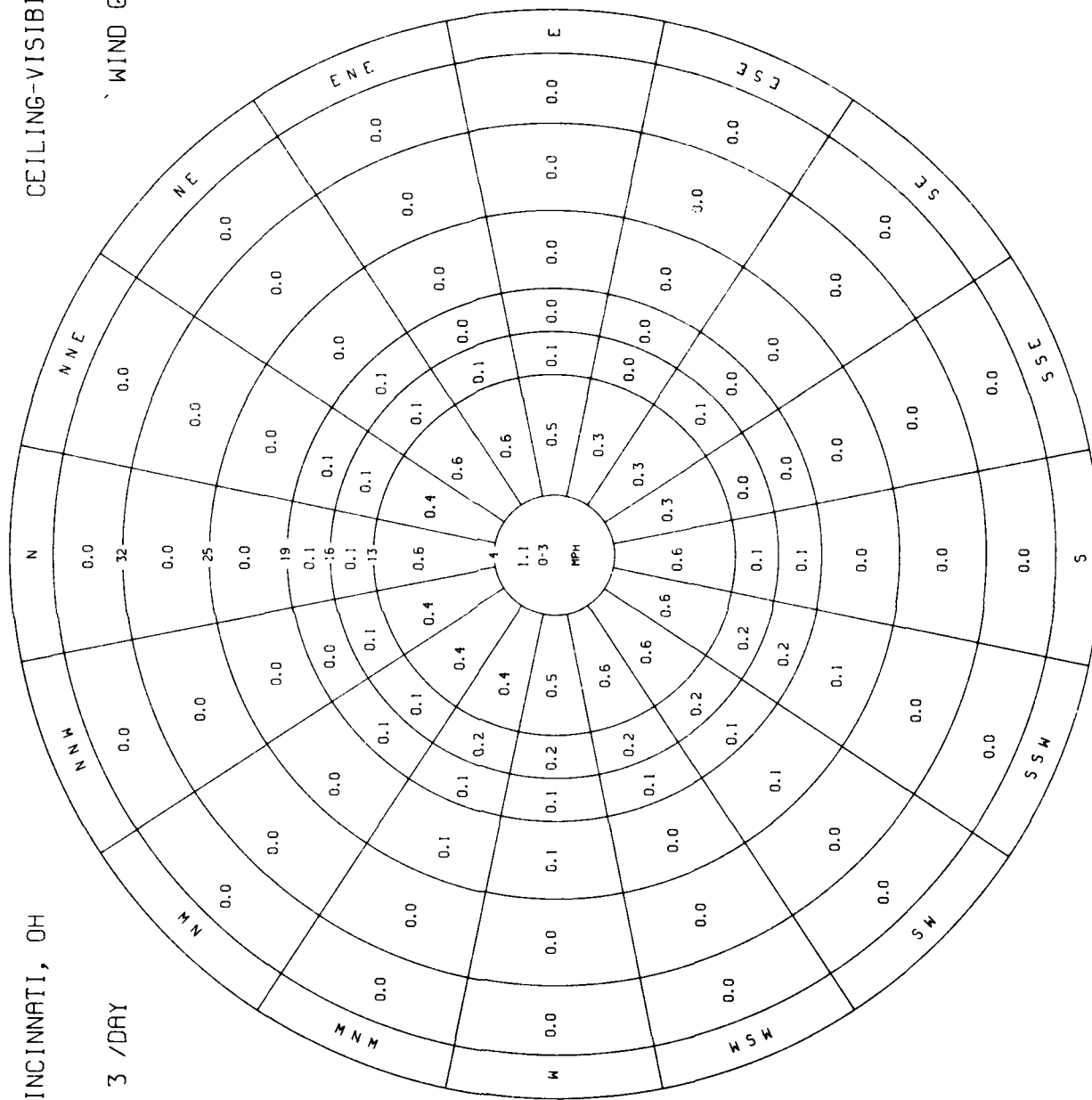
STATION NUMBER: 93814

NO. OBS.: 6090

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.1	.7	.9	5.8	.2	1.7	.1	.9	.0	.3	.0	.0	.0	.0	1.4	9.4	10.3
NNE	.1	.4	.6	4.2	.2	1.1	.1	.7	.0	.1	.0	.0	.0	.0	.9	6.5	10.1
NE	.1	.7	.6	4.3	.1	.9	.0	.3	.0	.1	.0	.0	.0	.0	.9	6.2	8.9
ENE	.1	.5	.5	3.5	.1	.7	.0	.2	.0	.1	.0	.0	.0	.0	.7	5.1	8.9
E	.1	.6	.5	3.3	.1	.6	.0	.2	.0	.0	.0	.0	.0	.0	.7	4.7	8.4
ESE	.0	.2	.3	2.3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.4	2.8	8.1
SE	.0	.2	.3	2.1	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.4	2.7	8.4
SSE	.1	.4	.3	2.0	.1	.4	.0	.1	.0	.1	.0	.0	.0	.0	.4	2.9	8.6
S	.1	.8	.6	4.2	.1	.6	.1	.7	.0	.2	.0	.0	.0	.0	1.0	6.5	9.3
SSW	.1	.6	.6	4.2	.2	1.1	.1	.7	.1	.7	.0	.2	.0	.0	1.1	7.6	11.2
SW	.1	.7	.8	5.2	.2	1.6	.1	.8	.1	.5	.0	.1	.0	.0	1.3	8.8	10.7
WSW	.0	.2	.6	4.2	.2	1.2	.1	.9	.0	.2	.0	.1	.0	.0	1.0	6.8	11.2
W	.1	.6	.7	4.9	.3	1.7	.1	.8	.1	.5	.0	.2	.0	.1	1.3	8.8	11.4
WNW	.0	.3	.5	3.6	.2	1.6	.2	1.1	.1	.6	.0	.1	.0	.0	1.1	7.3	12.1
NW	.1	.4	.5	3.4	.2	1.2	.1	.6	.0	.1	.0	.0	.0	.0	.9	5.8	10.5
NNW	.0	.3	.5	3.2	.2	1.3	.1	.7	.0	.1	.0	.0	.0	.0	.8	5.6	10.6
CALM	.4	2.6													.4	2.6	
TOTAL	1.5	10.2	8.9	60.4	2.4	16.1	1.3	8.8	.5	3.6	.1	.8	.0	.2	14.7	100	10.0

CEILING-VISIBILITY
WIND GRAPH

CVG CINCINNATI, OH
CLASS 3 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: CVG CINCINNATI, OH

PERIOD: 1948-1978

CLASS 3 / DAY

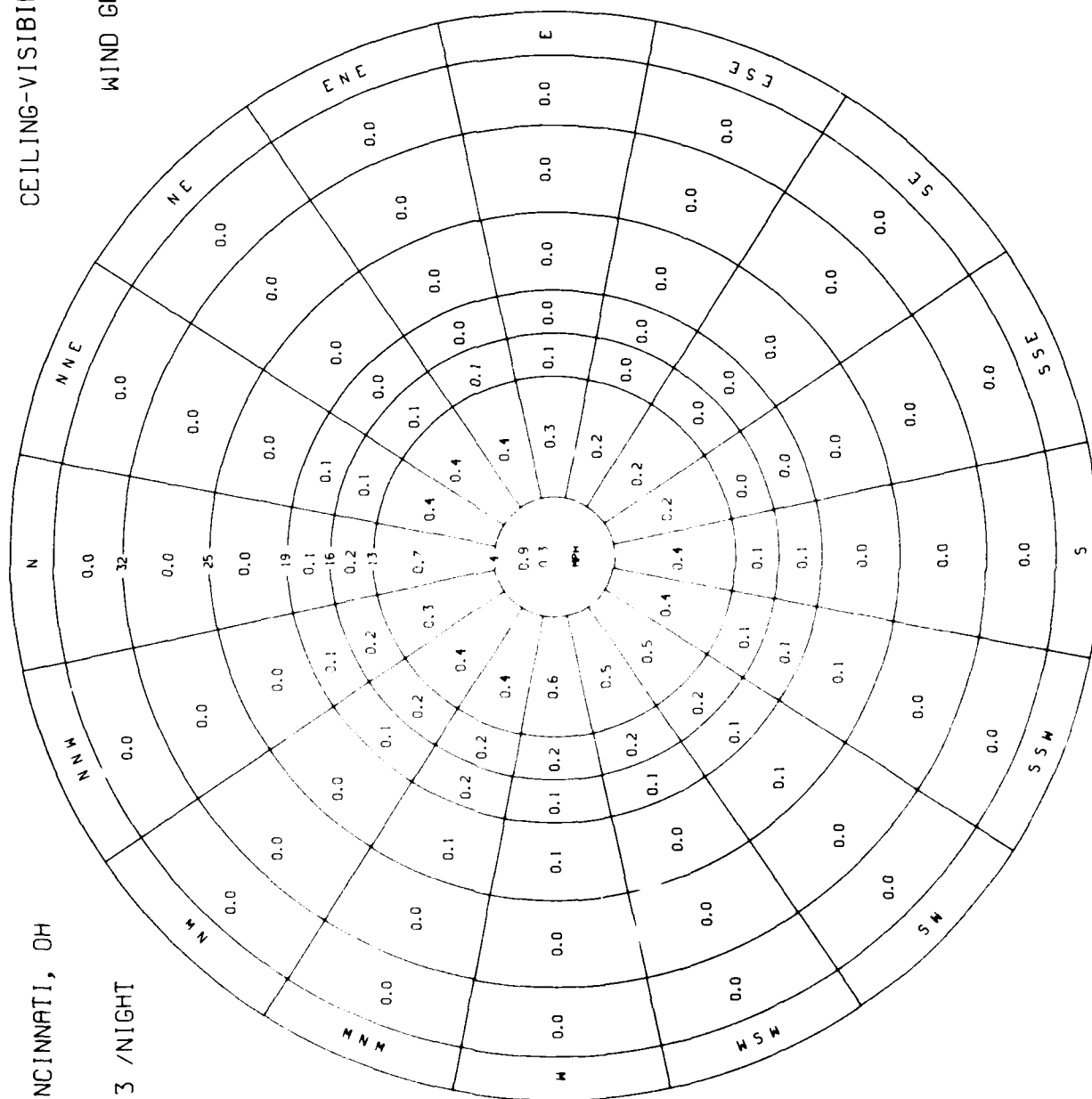
STATION NUMBER: 93814

NO. OBS.: 6342

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED			
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C	D
N	.1	.5	.6	4.6	.1	1.1	.1	.5	.0	.1	.0	.0	.0	.0	.0	.9	6.7	9.8
NNE	.1	.4	.4	3.4	.1	1.1	.1	.5	.0	.2	.0	.0	.0	.0	.0	.7	5.6	10.2
NE	.1	.8	.6	4.6	.1	1.1	.1	.4	.0	.1	.0	.0	.0	.0	.0	.9	6.9	9.1
ENE	.1	.5	.6	4.4	.1	.6	.0	.3	.0	.1	.0	.0	.0	.0	.0	.8	5.8	8.6
E	.1	.6	.5	3.8	.1	.6	.0	.1	.0	.0	.0	.0	.0	.0	.0	.7	5.1	8.2
ESE	.0	.3	.3	2.4	.0	.3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.4	3.2	8.6
SE	.0	.1	.3	2.2	.1	.4	.0	.1	.0	.0	.0	.0	.0	.0	.0	.4	2.9	9.2
SSE	.0	.3	.3	2.5	.0	.3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.5	3.5	9.4
S	.1	.6	.6	4.4	.1	.9	.1	.6	.0	.2	.0	.0	.0	.0	.0	.9	6.7	9.7
SSW	.1	.5	.6	4.9	.2	1.6	.2	1.3	.1	.7	.0	.2	.0	.0	.0	1.2	9.2	11.8
SW	.1	.5	.6	4.9	.2	1.7	.1	1.1	.1	.6	.0	.1	.0	.0	.0	1.2	8.9	11.5
WSW	.0	.3	.6	4.5	.2	1.6	.1	1.0	.0	.4	.0	.2	.0	.0	.0	1.0	7.9	11.6
W	.1	.5	.5	4.1	.2	1.6	.1	1.0	.1	.7	.0	.1	.0	.0	.0	1.1	8.1	11.9
WNW	.0	.1	.4	3.4	.2	1.8	.1	1.0	.1	.5	.0	.1	.0	.0	.0	.9	6.9	12.5
NW	.0	.3	.4	3.4	.1	1.0	.1	.7	.0	.2	.0	.0	.0	.0	.0	.7	5.6	10.8
NNW	.0	.1	.4	2.9	.1	1.1	.0	.3	.0	.2	.0	.0	.0	.0	.0	.6	4.6	10.8
CALM	.3	2.3														.3	2.3	
TOTAL	1.1	8.7	7.8	60.3	2.1	16.6	1.2	9.3	.5	4.1	.1	.9	.0	.1	.0	12.9	100	10.3

CVG CINCINNATI, OH

CLASS 3 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: CVG CINCINNATI, OH

PERIOD: 1948-1978

CLASS 3 / NIGHT

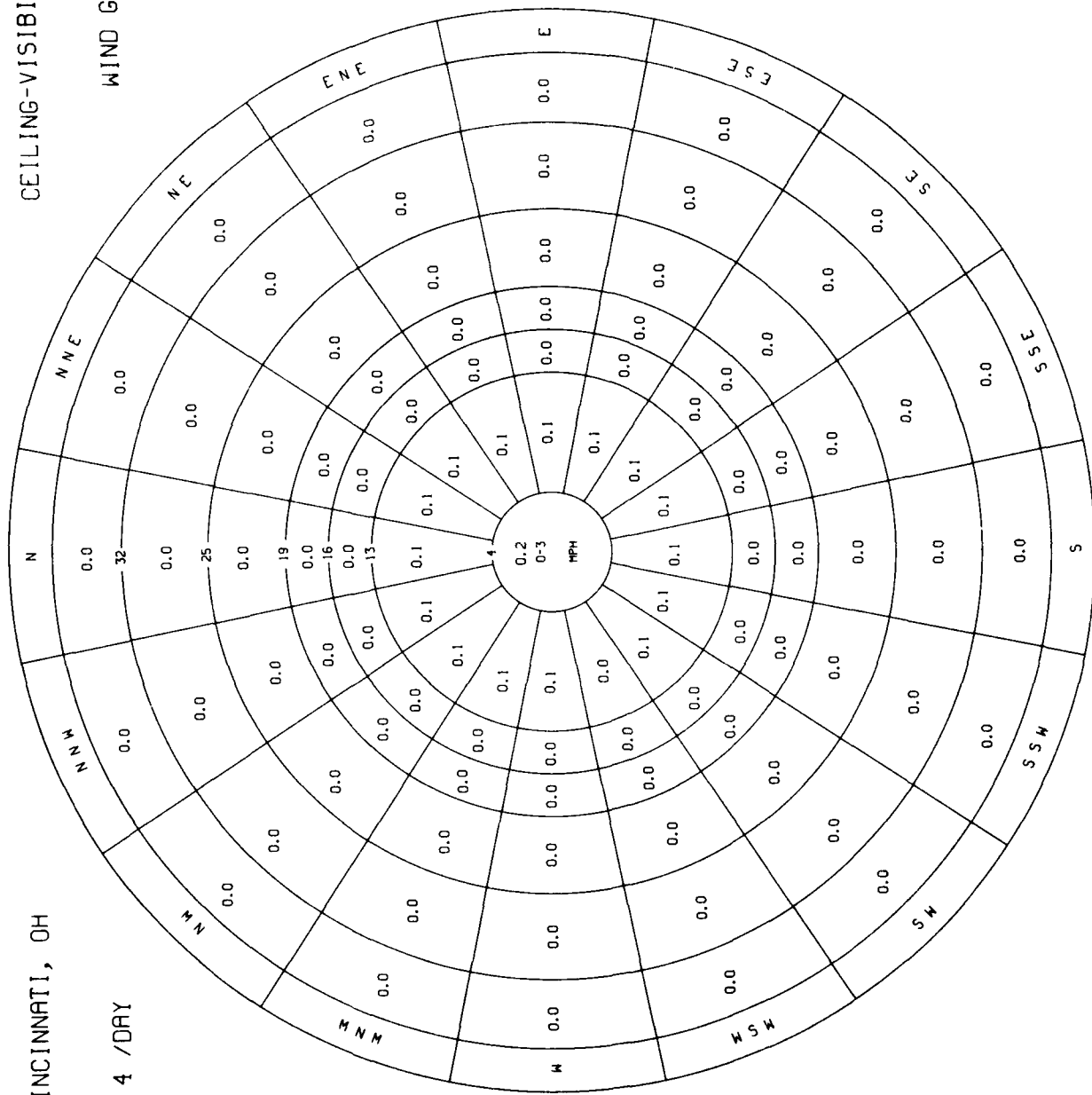
STATION NUMBER: 93814

NO. OBS.: 4596

D I R	SPEED GROUPS (MPH)																		AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL				
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D			
N	.1	.5	.7	6.3	.2	1.9	.1	1.0	.0	.3	.0	.0	.0	.0	1.1	10.0	10.6		
NNE	.0	.3	.4	4.0	.1	1.3	.1	.8	.0	.1	.0	.0	.0	.0	.7	6.5	10.6		
NNE	.1	.6	.4	4.0	.1	1.0	.0	.3	.0	.1	.0	.0	.0	.0	.7	6.0	9.3		
ENE	.0	.3	.4	3.2	.1	.7	.0	.2	.0	.1	.0	.0	.0	.0	.5	4.5	9.2		
E	.1	.5	.3	2.8	.1	.5	.0	.2	.0	.1	.0	.0	.0	.0	.5	4.2	8.5		
ESE	.0	.1	.2	2.0	.0	.2	.0	.1	.0	.0	.0	.0	.0	.0	.3	2.4	8.6		
SE	.0	.2	.2	1.8	.0	.3	.0	.1	.0	.0	.0	.0	.0	.0	.3	2.3	8.5		
SSE	.0	.3	.2	1.6	.0	.4	.0	.1	.0	.1	.0	.0	.0	.0	.3	2.5	9.6		
S	.1	.6	.4	3.7	.1	.7	.1	.9	.0	.2	.0	.0	.0	.0	.7	6.1	10.2		
SSW	.1	.5	.4	3.5	.1	1.3	.1	.9	.1	.8	.0	.2	.0	.1	.8	7.2	12.3		
SW	.1	.5	.5	4.7	.2	1.7	.1	.9	.1	.7	.0	.1	.0	.0	1.0	8.6	11.5		
WSW	.0	.2	.5	4.2	.2	1.5	.1	1.2	.0	.3	.0	.1	.0	.0	.8	7.5	11.6		
W	.1	.5	.6	5.1	.2	2.2	.1	1.0	.1	.7	.0	.2	.0	.0	1.1	9.7	11.9		
WNW	.0	.2	.4	3.9	.2	2.0	.2	1.4	.1	.7	.0	.1	.0	.0	.9	8.4	12.5		
NW	.0	.4	.4	3.6	.2	1.6	.1	.7	.0	.2	.0	.0	.0	.0	.7	6.4	10.9		
NNW	.0	.2	.3	3.0	.2	1.4	.1	.8	.0	.1	.0	.0	.0	.0	.6	5.5	11.2		
CALM	.2	2.0													.2	2.0			
TOTAL	.9	8.0	6.4	57.4	2.1	18.6	1.2	10.5	.5	4.4	.1	.9	.0	.1	11.1	100	10.6		

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: CVG CINCINNATI, OH

PERIOD: 1948-1978

CLASS 4 / DAY

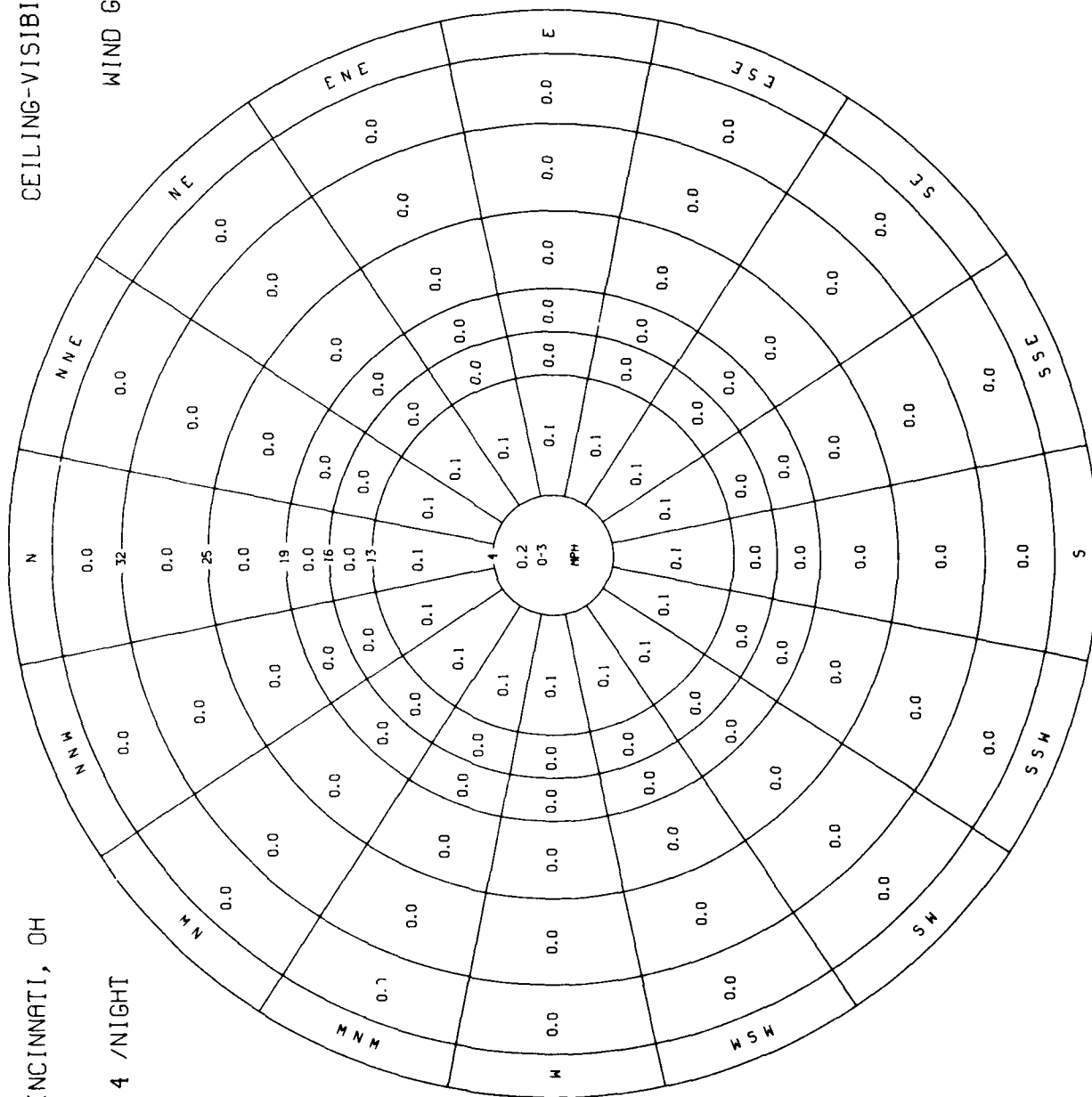
STATION NUMBER: 93814

NO. OBS.: 872

D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.2	.1	4.7	.0	.8	.0	.8	.0	.2	.0	.1	.0	.0	.1	6.9	10.2
NNE	.0	.2	.1	5.4	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.1	6.4	8.1
NE	.0	.6	.1	6.9	.0	1.4	.0	.2	.0	.0	.0	.0	.0	.0	.2	9.1	8.9
ENE	.0	1.1	.1	7.0	.0	1.0	.0	.2	.0	.3	.0	.0	.0	.0	.2	9.7	8.6
E	.0	.2	.1	5.3	.0	1.0	.0	.2	.0	.0	.0	.0	.0	.0	.1	6.8	8.7
ESE	.0	.3	.1	3.6	.0	.7	.0	.1	.0	.0	.0	.0	.0	.0	.1	4.7	9.1
SE	.0	.3	.1	4.4	.0	.7	.0	.1	.0	.0	.0	.0	.0	.0	.1	5.5	9.0
SSE	.0	.3	.1	3.1	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.1	3.9	8.3
S	.0	1.4	.1	5.0	.0	.7	.0	.2	.0	.0	.0	.0	.0	.0	.1	7.3	7.8
SSW	.0	.0	.1	4.7	.0	.6	.0	.3	.0	.0	.0	.0	.0	.0	.1	5.6	9.6
SW	.0	.7	.1	6.4	.0	1.0	.0	.5	.0	.0	.0	.0	.0	.0	.2	8.6	8.6
WSW	.0	.6	.0	2.6	.0	.2	.0	.2	.0	.0	.0	.1	.0	.1	.1	3.9	9.9
W	.0	.3	.1	3.2	.0	.1	.0	.5	.0	.2	.0	.0	.0	.0	.1	4.4	9.1
WNW	.0	.2	.1	2.9	.0	.6	.0	.3	.0	.2	.0	.0	.0	.1	.1	4.4	10.4
NW	.0	.1	.1	3.1	.0	.8	.0	.3	.0	.2	.0	.0	.0	.0	.1	4.6	10.3
NNW	.0	.3	.1	3.0	.0	.7	.0	.2	.0	.0	.0	.0	.0	.1	.1	4.4	10.1
CALM	.1	3.9													.1	3.9	
TOTAL	.2	11.0	1.3	71.2	.2	11.6	.1	4.4	.0	1.3	.0	.2	.0	.3	1.8	100	8.7

CEILING-VISIBILITY

WIND GRAPH



CVG CINCINNATI, OH

CLASS 4 / NIGHT

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: CVG CINCINNATI, OH

PERIOD: 1948-1978

CLASS 4 / NIGHT

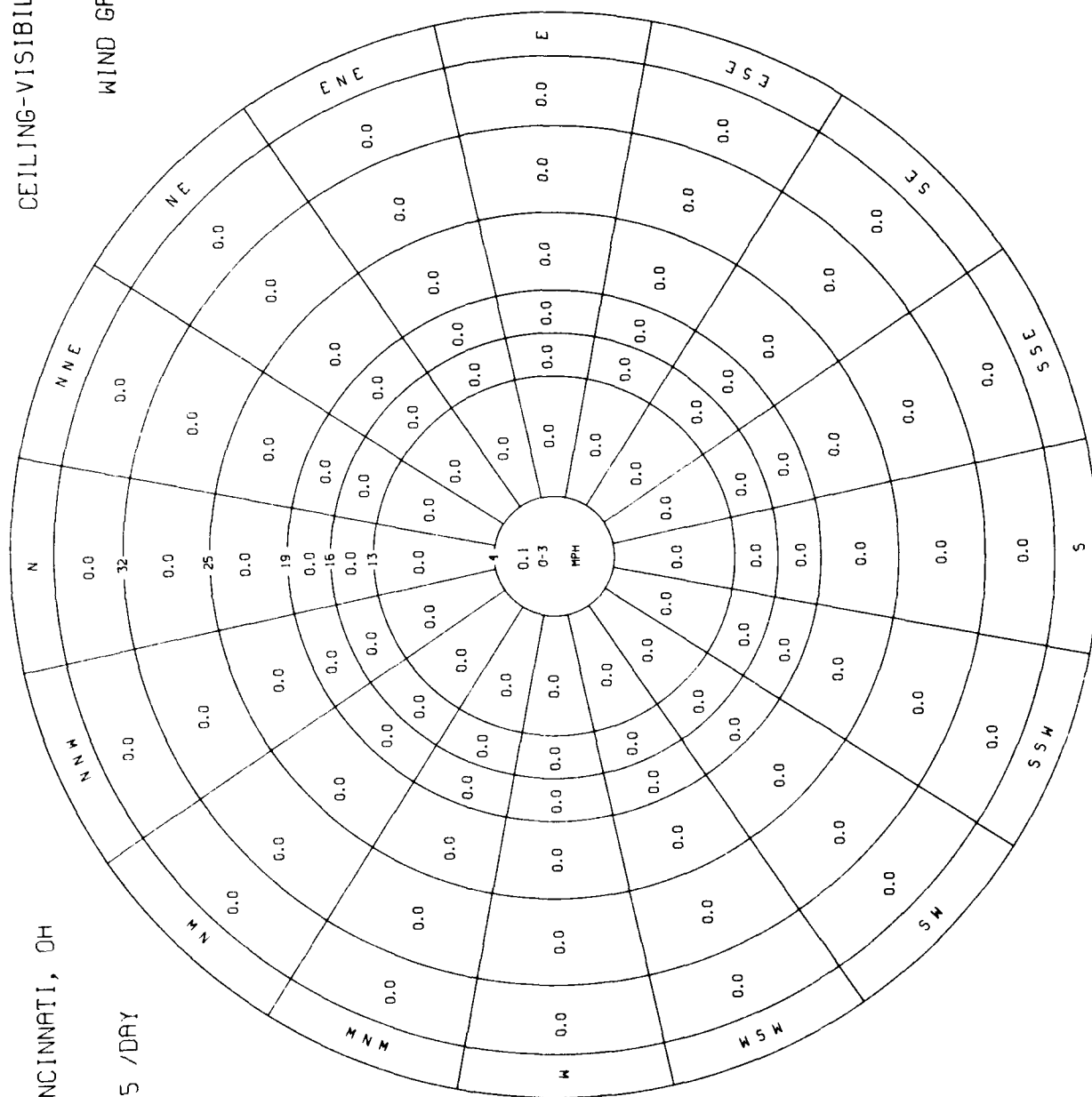
STATION NUMBER: 93814

NO. OBS.: 921

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.7	.1	4.7	.0	1.3	.0	1.0	.0	.5	.0	.1	.0	.0	.2 8.3
NNE	.0	.5	.1	5.8	.0	.7	.0	.5	.0	.0	.0	.0	.0	.0	.2 7.5
NE	.0	.7	.1	5.2	.0	.5	.0	.5	.0	.0	.0	.1	.0	.0	.2 7.1
ENE	.0	.7	.1	4.9	.0	1.3	.0	.2	.0	.1	.0	.0	.0	.0	.2 7.2
E	.0	.5	.1	4.7	.0	1.3	.0	.3	.0	.0	.0	.0	.0	.0	.2 6.8
ESE	.0	.4	.1	2.8	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.1 3.6
SE	.0	.2	.1	3.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.1 3.7
SSE	.0	.7	.1	2.9	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.1 4.0
S	.0	.9	.1	5.3	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.2 6.8
SSW	.0	.8	.1	5.0	.0	.5	.0	.2	.0	.3	.0	.0	.0	.0	.2 6.8
SW	.0	.8	.1	6.5	.0	1.8	.0	.1	.0	.0	.0	.1	.0	.0	.2 9.3
WSW	.0	.1	.1	4.2	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.1 4.7
W	.0	.7	.1	4.8	.0	.4	.0	.3	.0	.0	.0	.1	.0	.3	.1 6.6
WNW	.0	.1	.1	3.5	.0	.8	.0	.1	.0	.1	.0	.0	.0	.0	.1 4.6
NW	.0	.3	.1	3.4	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.1 4.1
NNW	.0	.2	.1	4.2	.0	1.2	.0	.5	.0	.2	.0	.0	.0	.0	.1 6.4
CALM	.1	2.5													.1 2.5
TOTAL	.2	10.6	1.6	70.9	.3	11.9	.1	4.5	.0	1.3	.0	.4	.0	.3	2.2 100
															8.8

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: CVG CINCINNATI, OH

CLASS 5 / DAY

NO. OBS.: 189

STATION NUMBER: 93814

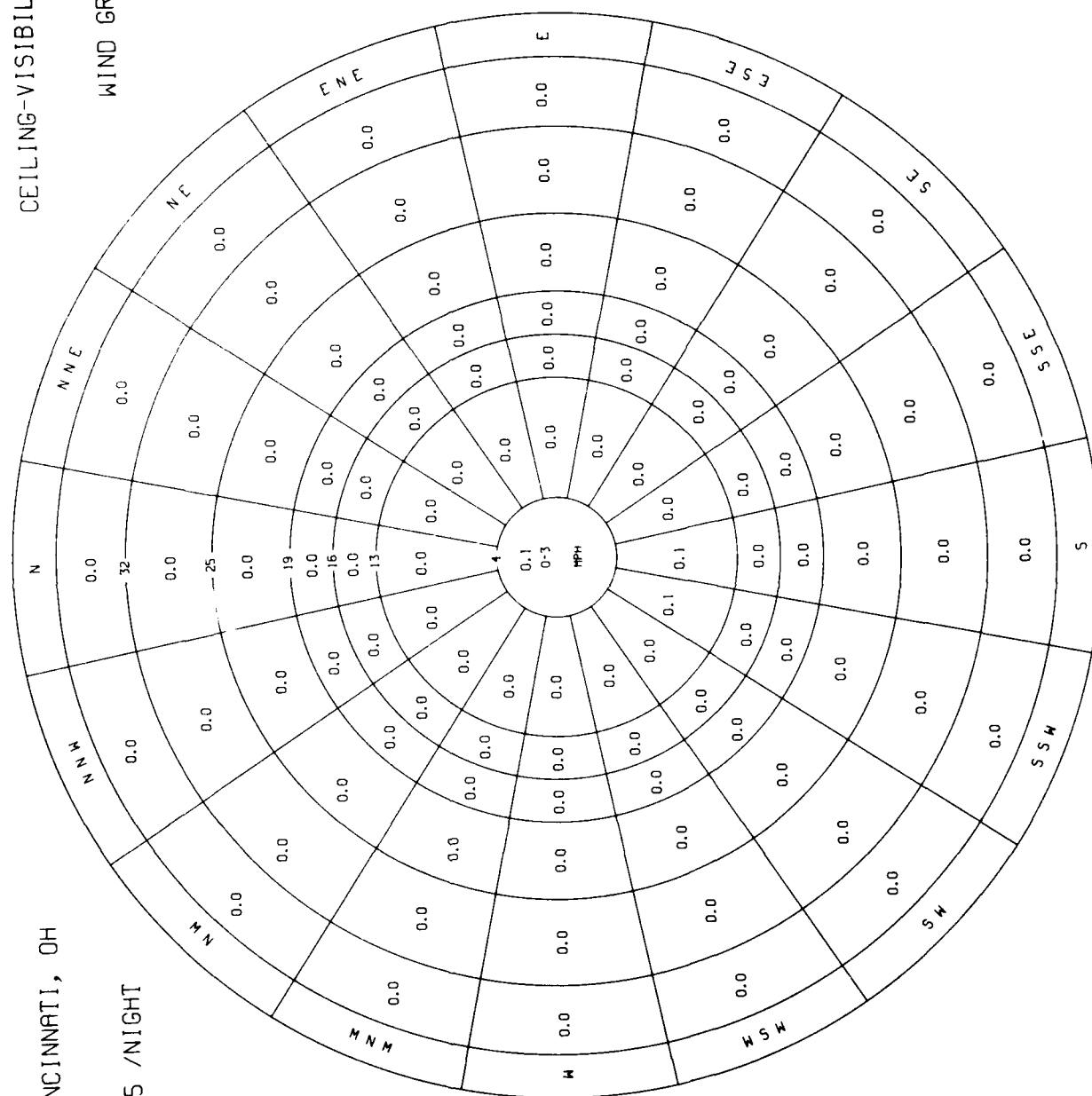
D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	3.2	.0	4.2	.0	2.6	.0	1.6	.0	.5	.0	.0	.0	.0	.0	12.2	9.5
NNE	.0	2.1	.0	4.2	.0	1.1	.0	.5	.0	.0	.0	.0	.0	.0	.0	7.9	7.5
NE	.0	1.6	.0	6.3	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.5	6.9
ENE	.0	1.6	.0	5.8	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.5	6.9
E	.0	1.6	.0	4.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.8	5.4
ESE	.0	.0	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	7.4
SE	.0	1.1	.0	3.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.8	7.0
SSE	.0	.5	.0	2.6	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7	8.0
S	.0	1.1	.0	3.2	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.8	7.4
SSW	.0	1.1	.0	3.2	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	4.8	8.2
SW	.0	1.1	.0	3.7	.0	.0	.0	.5	.0	.0	.0	.5	.0	.0	.0	5.8	9.7
WSW	.0	2.1	.0	5.3	.0	.0	.0	.0	.0	.5	.0	.5	.0	.0	.0	8.5	8.7
W	.0	.0	.0	3.7	.0	.0	.0	.5	.0	.5	.0	.0	.0	.0	.0	5.3	8.9
WNW	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1	6.5
NW	.0	.0	.0	3.2	.0	.5	.0	.0	.0	.5	.0	.5	.0	.0	.0	4.8	11.0
NNW	.0	.0	.0	3.7	.0	.5	.0	1.1	.0	.0	.0	.0	.0	.0	.0	5.3	11.3
CALM	.0	4.8													.0	4.8	
TOTAL	.1	22.8	.2	61.4	.0	7.4	.0	4.8	.0	2.1	.0	1.6	.0	.0	.4	100	7.9

CEILING-VISIBILITY

WIND GRAPH

CVG CINCINNATI, OH

CLASS 5 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: CVG CINCINNATI, OH

PERIOD: 1948-1978

CLASS 5 / NIGHT

STATION NUMBER: 93814

NO. OBS.: 271

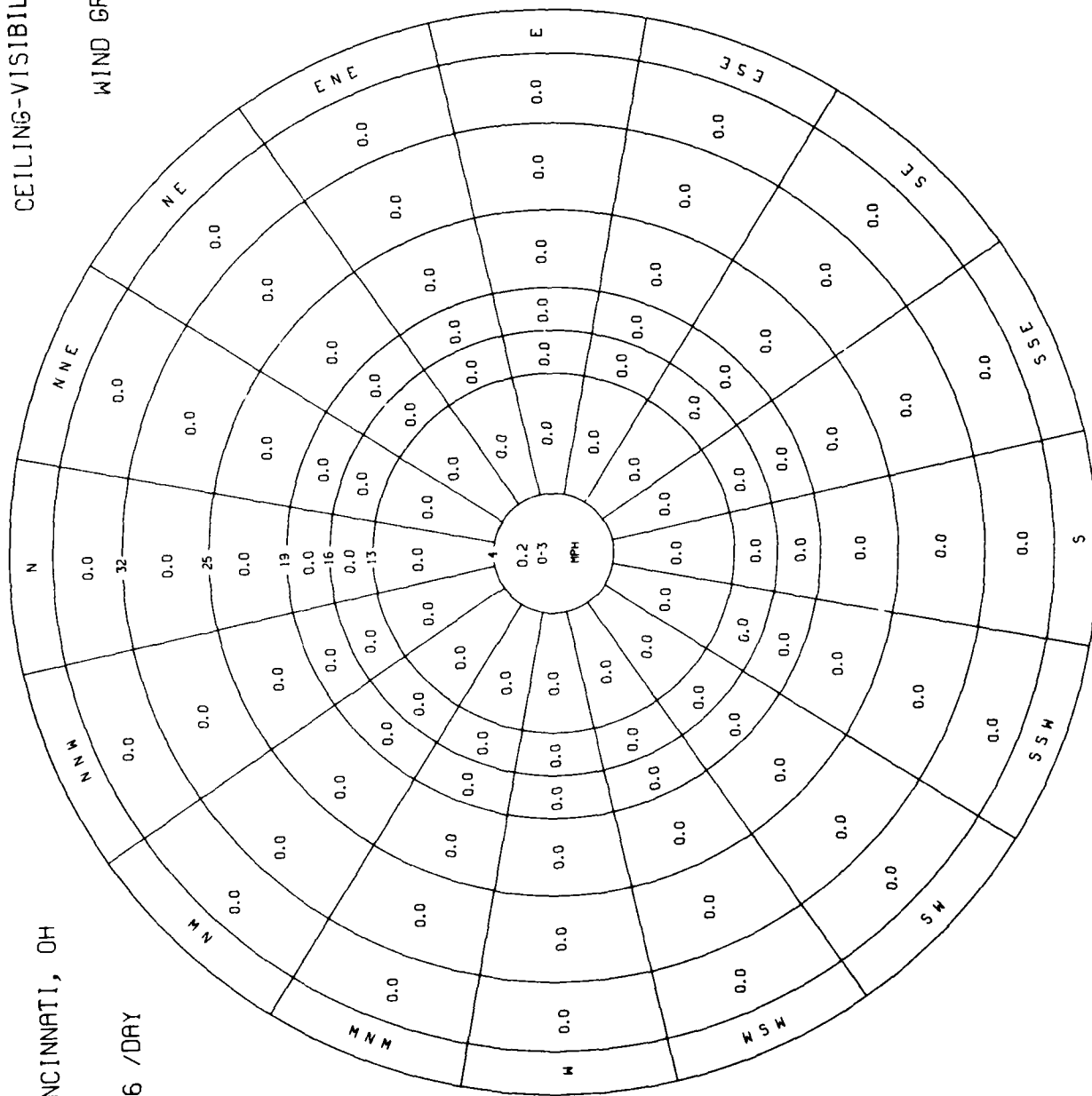
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	1.1	.0	4.1	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	5.5
NNE	.0	.0	.0	3.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7
NE	.0	1.1	.0	5.5	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	7.4
ENE	.0	.4	.0	4.8	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	5.5
E	.0	.7	.0	5.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.3
ESE	.0	.4	.0	3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7
SE	.0	.4	.0	4.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.8
SSE	.0	1.5	.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.4
S	.0	1.8	.1	7.7	.0	.4	.0	.0	.0	.0	.0	.0	.0	.1	10.0
SSW	.0	.4	.1	11.4	.0	.7	.0	.7	.0	.0	.0	.4	.0	.1	13.7
SW	.0	1.1	.0	6.3	.0	.7	.0	1.1	.0	.0	.0	.0	.0	.1	9.2
WSW	.0	.7	.0	3.0	.0	.0	.0	.0	.0	.4	.0	.4	.0	.0	4.8
W	.0	.4	.0	2.6	.0	.4	.0	.0	.0	.0	.0	.4	.0	.0	3.7
WNW	.0	.4	.0	1.1	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	2.2
NW	.0	.7	.0	3.0	.0	.7	.0	.0	.0	.4	.0	.0	.0	.0	4.8
NNW	.0	.4	.0	3.7	.0	.7	.0	.4	.0	.4	.0	.0	.0	.0	5.5
CALM	.0	4.8												.0	4.8
TOTAL	.1	16.2	.5	73.1	.0	4.8	.0	2.6	.0	1.8	.0	1.1	.0	.7	100
															7.8

CEILING-VISIBILITY

WIND GRAPH

CVG CINCINNATI, OH

CLASS 6 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: CVG CINCINNATI, OH

CLASS 6 / DAY

NO. OBS.: 259

STATION NUMBER: 93814

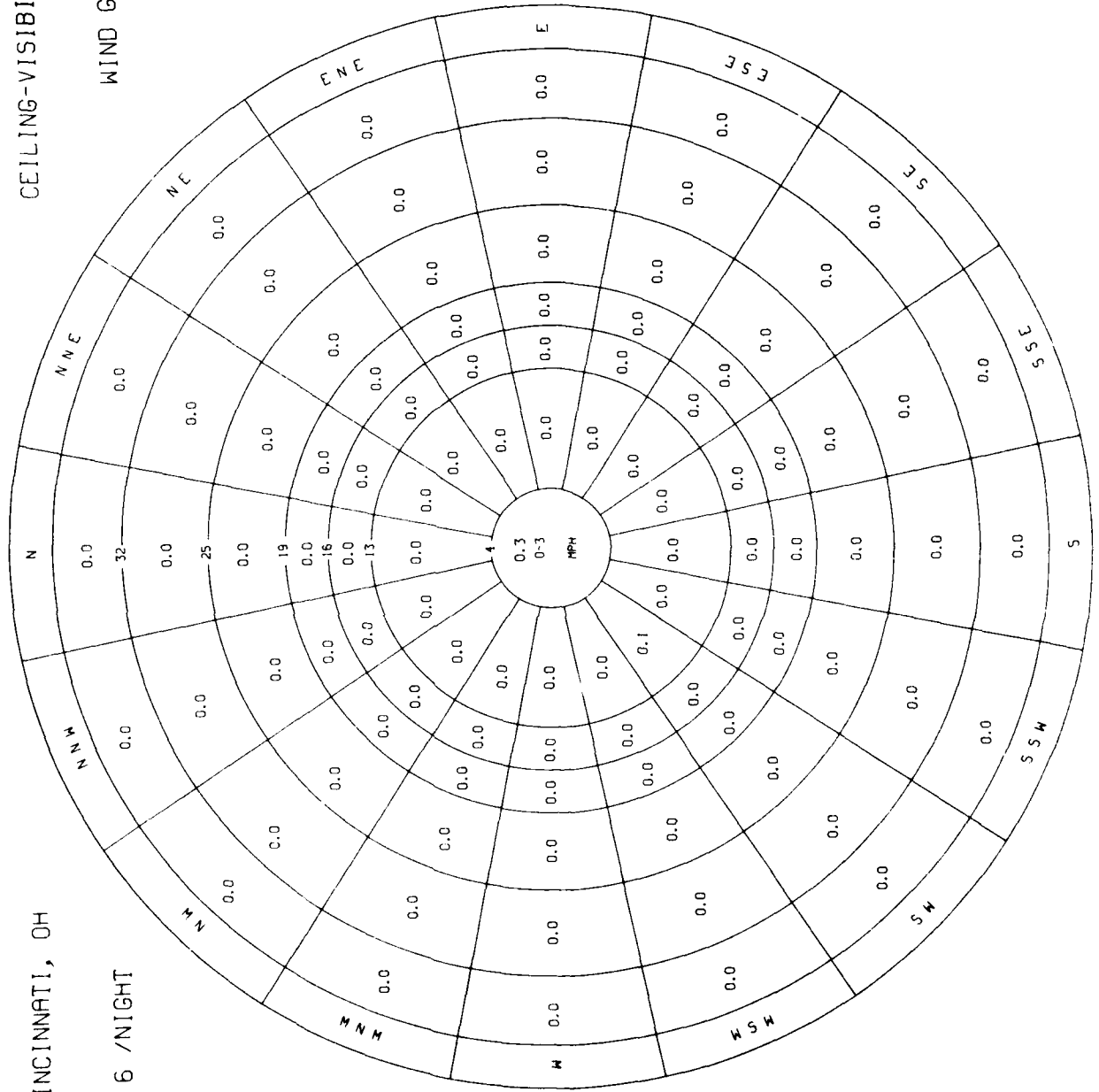
O I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.8	.0	6.9	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0 8.1
NNE	.0	1.2	.0	4.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 5.8
NE	.0	5.0	.0	4.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1 9.7
ENE	.0	2.7	.0	3.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 6.2
E	.0	1.2	.0	4.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 5.4
ESE	.0	.8	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.1
SE	.0	1.2	.0	3.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 5.0
SSE	.0	1.2	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.5
S	.0	1.2	.0	5.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 6.9
SSW	.0	2.3	.0	7.7	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.1 10.4
SW	.0	2.7	.0	5.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 8.5
WSW	.0	.8	.0	2.3	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0 3.5
W	.0	.4	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.5
WNW	.0	.4	.0	1.9	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0 3.1
NW	.0	.4	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.7
NNW	.0	1.2	.0	1.9	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0 3.5
CALM	.1	13.1													.1 13.1
TOTAL	.2	36.3	.3	61.4	.0	1.2	.0	.0	.0	1.2	.0	.0	.0	.0	.5 100
															5.2

CEILING-VISIBILITY

WIND GRAPH

CVG CINCINNATI, OH

CLASS 6 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: CVG CINCINNATI, OH

CLASS 6 / NIGHT

NO. OBS.: 302

STATION NUMBER: 93814

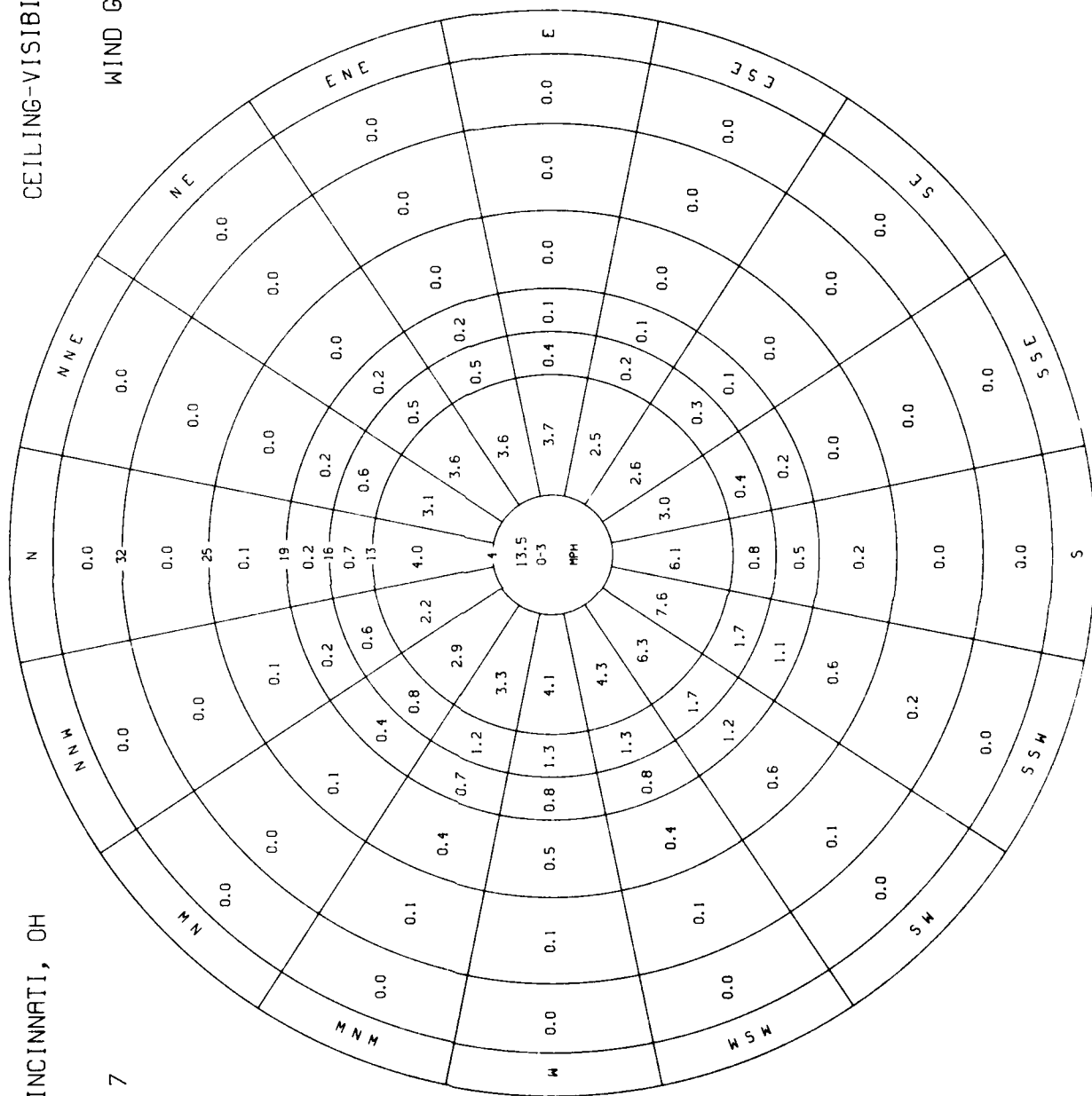
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED			
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C	D
N	.0	3.0	.0	4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	7.0	4.7
NNE	.0	.7	.0	4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.6	6.0
NE	.0	2.0	.0	3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.3	4.9
ENE	.0	2.6	.0	3.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.3	4.6
E	.0	1.3	.0	4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.3	5.4
ESE	.0	1.0	.0	4.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.6	5.9
SE	.0	1.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	6.0
SSE	.0	.7	.0	3.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.3	5.8
S	.0	2.6	.0	5.6	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	8.6	5.8
SSW	.0	2.3	.0	6.3	.0	.3	.0	.3	.0	.3	.0	.0	.0	.0	.0	.1	9.6	6.9
SW	.0	1.7	.1	7.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	8.6	5.9
WSW	.0	.3	.0	5.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.3	6.7
W	.0	2.0	.0	3.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.6	5.0
WNW	.0	1.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	4.7
NW	.0	1.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	5.4
NNW	.0	2.3	.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.3	4.5
CALM	.1	11.3														.1	11.3	
TOTAL	.3	36.8	.5	61.9	.0	.7	.0	.3	.0	.3	.0	.0	.0	.0	.0	.7	100	4.9

CEILING-VISIBILITY

WIND GRAPH

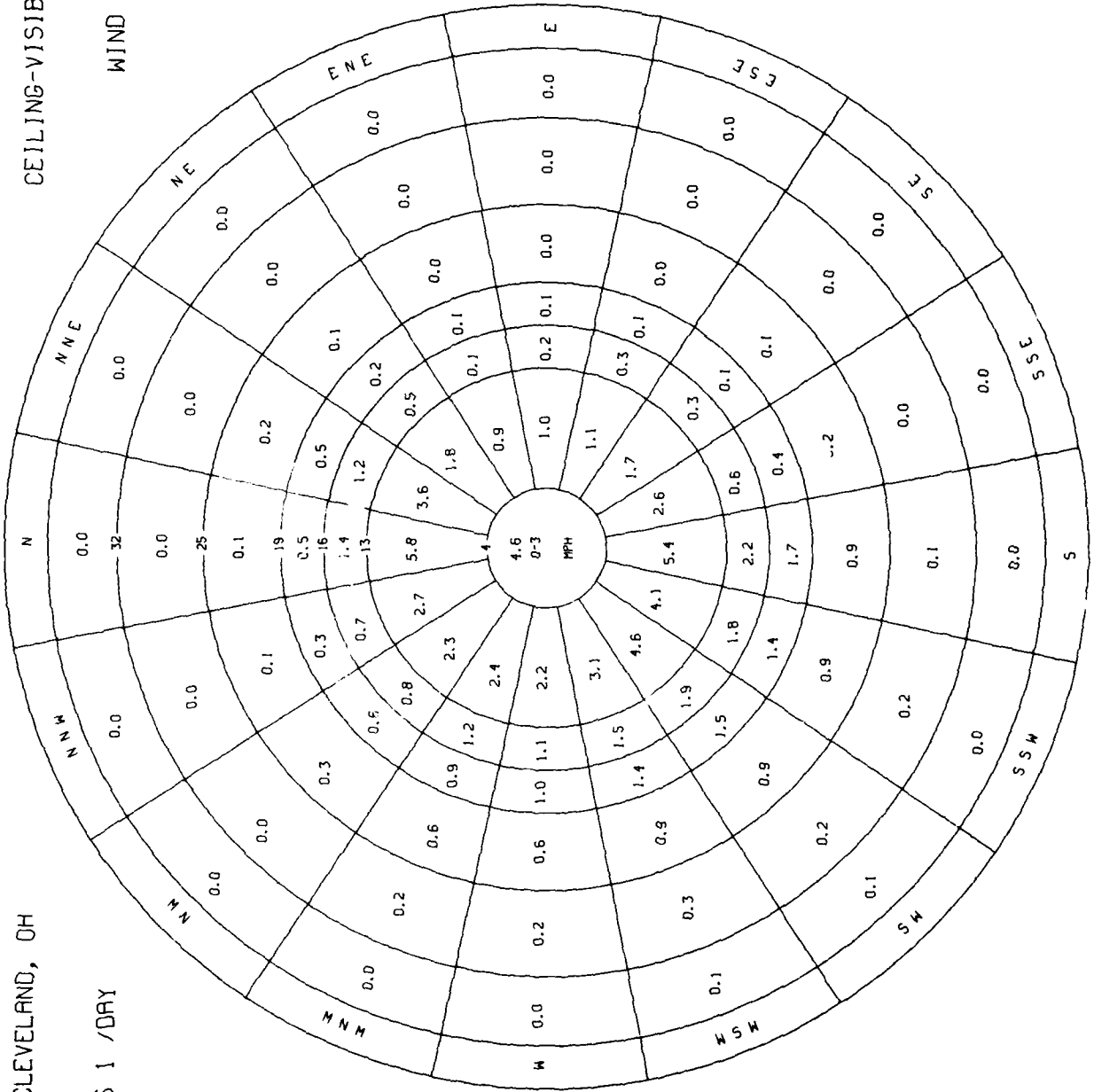
CVG CINCINNATI, OH

CLASS 7



CLE CLEVELAND, OH

CLASS 1 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: CLE CLEVELAND, OH

PERIOD: 1948-1978

CLASS 1 / DAY

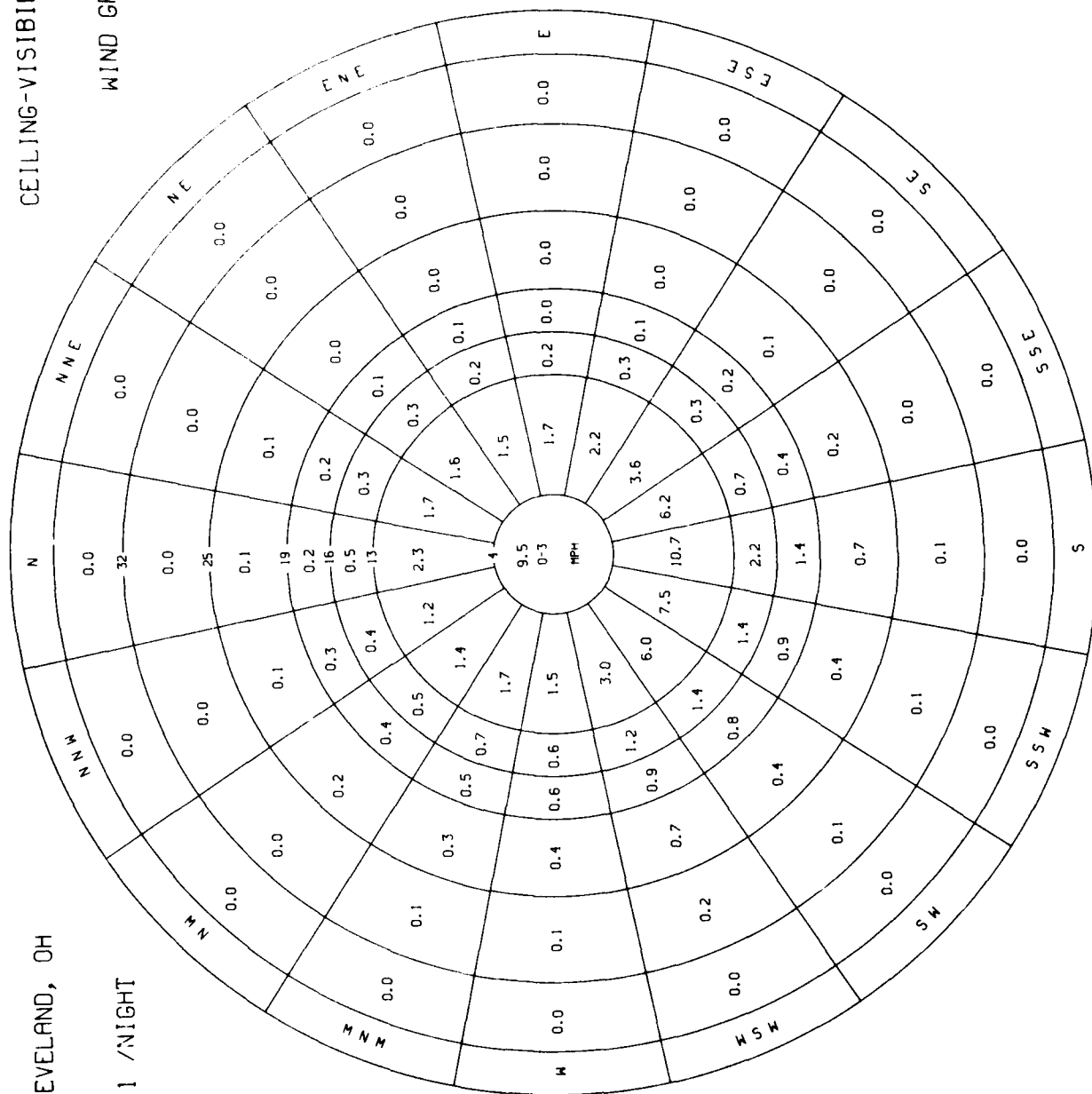
STATION NUMBER: 14820

NO. OBS.: 42162

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.3	.4	5.8	6.9	1.4	1.7	.5	.6	.1	.1	.0	.0	.0	.0	8.1 9.6 10.0
NNE	.2	.2	3.6	4.3	1.2	1.4	.5	.6	.2	.2	.0	.0	.0	.0	5.7 6.7 11.0
NE	.2	.3	1.8	2.2	.5	.6	.2	.3	.1	.1	.0	.0	.0	.0	2.9 3.4 10.1
ENE	.1	.2	.9	1.1	.1	.2	.1	.1	.0	.0	.0	.0	.0	.0	1.3 1.5 9.0
E	.1	.1	1.0	1.2	.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	1.4 1.7 9.5
ESE	.1	.1	1.1	1.4	.3	.3	.1	.2	.0	.0	.0	.0	.0	.0	1.7 2.0 10.1
SE	.3	.4	1.7	2.1	.3	.3	.1	.2	.1	.1	.0	.0	.0	.0	2.5 3.0 8.9
SSE	.3	.4	2.6	3.1	.6	.7	.4	.5	.2	.2	.0	.0	.0	.0	4.3 5.0 10.3
S	.4	.5	5.4	6.4	2.2	2.6	1.7	2.0	.9	1.0	.1	.2	.0	.0	10.7 12.7 12.2
SSW	.3	.3	4.1	4.8	1.8	2.1	1.4	1.6	.9	1.0	.2	.2	.0	.0	8.6 10.2 12.8
SW	.3	.3	4.6	5.4	1.9	2.3	1.5	1.8	.9	1.1	.2	.3	.1	.1	9.4 11.2 12.8
WSW	.2	.2	3.1	3.7	1.5	1.8	1.4	1.6	.9	1.1	.3	.4	.1	.1	7.6 9.0 13.9
W	.2	.2	2.2	2.6	1.1	1.4	1.0	1.1	.6	.7	.2	.2	.0	.0	5.3 6.3 13.5
WNW	.1	.1	2.4	2.8	1.2	1.5	.9	1.1	.6	.8	.2	.2	.0	.0	5.5 6.5 13.4
NW	.2	.2	2.3	2.7	.8	.9	.6	.7	.3	.3	.0	.0	.0	.0	4.2 5.0 11.6
NNW	.2	.2	2.7	3.2	.7	.9	.3	.4	.1	.2	.0	.0	.0	.0	4.2 4.9 10.6
CALM	1.1	1.3													1.1 1.3
TOTAL	4.6	5.5	45.4	53.8	15.9	18.8	10.9	12.9	6.0	7.2	1.3	1.5	.2	.3	84.4 100 11.7

CLE CLEVELAND, OH

CLASS 1 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: CLE CLEVELAND, OH

PERIOD: 1948-1978

CLASS 1 / NIGHT

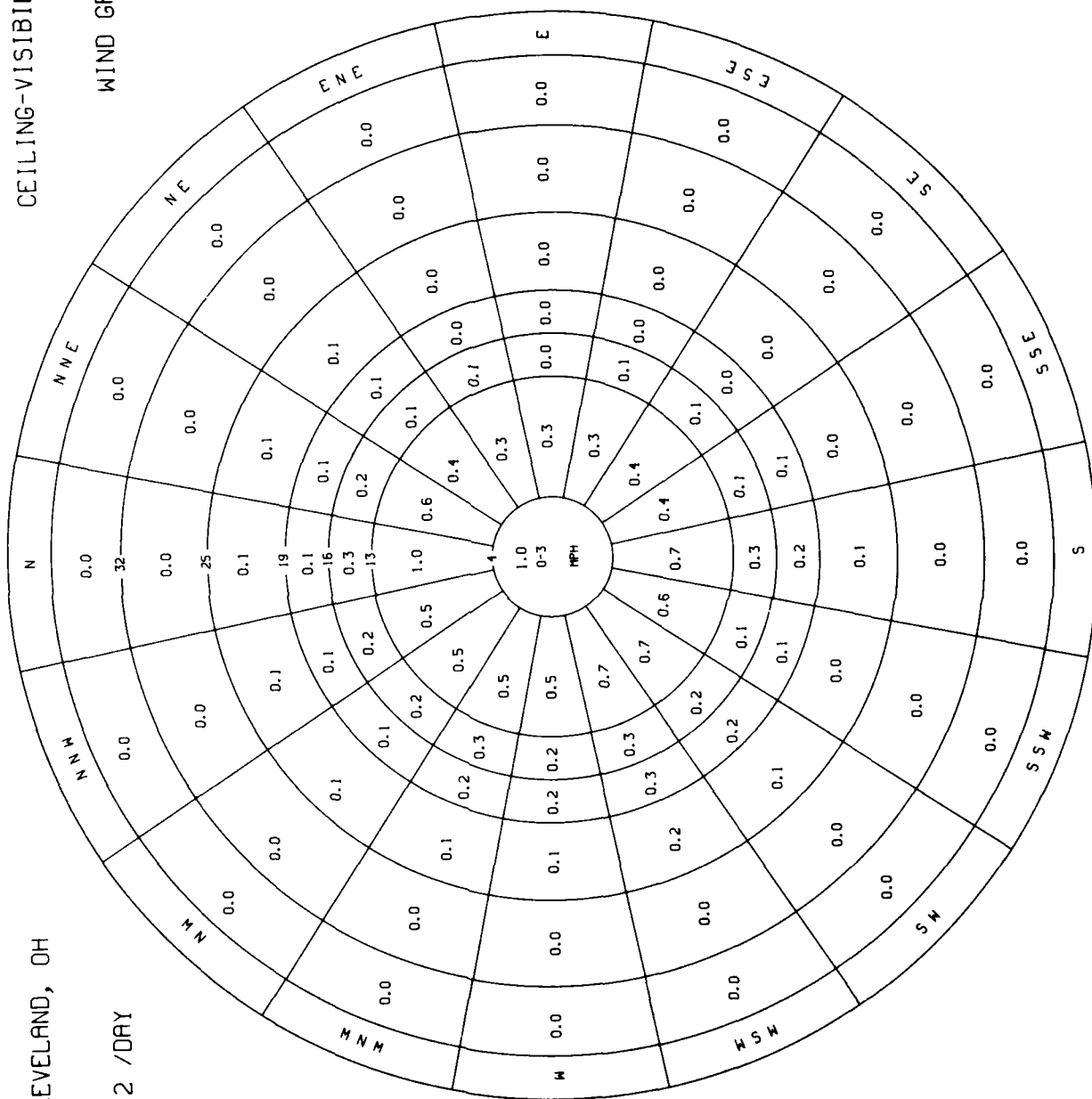
STATION NUMBER: 14820

NO. OBS.: 34908

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.4	.5	2.3	2.7	.5	.6	.2	.2	.1	.1	.0	.0	.0	.0	3.6	4.1	9.1
NNE	.2	.3	1.7	2.0	.3	.4	.2	.2	.1	.1	.0	.0	.0	.0	2.5	2.9	9.4
NE	.2	.2	1.6	1.9	.3	.3	.1	.1	.0	.1	.0	.0	.0	.0	2.3	2.6	8.8
ENE	.1	.2	1.5	1.7	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	1.9	2.2	8.5
E	.3	.3	1.7	2.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	2.2	2.6	7.9
ESE	.3	.3	2.2	2.5	.3	.3	.1	.1	.0	.0	.0	.0	.0	.0	2.8	3.3	8.4
SE	.8	1.0	3.6	4.2	.3	.3	.2	.2	.1	.1	.0	.0	.0	.0	5.0	5.8	7.4
SSE	.9	1.1	6.2	7.2	.7	.8	.4	.5	.2	.2	.0	.0	.0	.0	8.4	9.8	8.4
S	1.2	1.4	10.7	12.5	2.2	2.6	1.4	1.6	.7	.8	.1	.1	.0	.0	16.4	19.1	10.0
SSW	.6	.7	7.5	8.8	1.4	1.7	.9	1.0	.4	.5	.1	.1	.0	.0	10.9	12.7	9.9
SW	.4	.5	6.0	6.9	1.4	1.6	.8	1.0	.4	.5	.1	.1	.0	.0	9.2	10.7	10.6
WSW	.2	.3	3.0	3.5	1.2	1.4	.9	1.0	.7	.8	.2	.2	.0	.1	6.3	7.3	12.8
W	.2	.3	1.5	1.8	.6	.7	.6	.6	.4	.4	.1	.1	.0	.0	3.4	4.0	12.9
WNW	.1	.1	1.7	1.9	.7	.8	.5	.5	.3	.4	.1	.1	.0	.0	3.4	4.0	12.6
NW	.2	.3	1.4	1.6	.5	.6	.4	.4	.2	.3	.0	.0	.0	.0	2.8	3.2	11.3
NNW	.2	.3	1.2	1.3	.4	.4	.3	.3	.1	.1	.0	.0	.0	.0	2.1	2.5	10.3
CALM	2.9	3.4													2.9	3.4	
TOTAL	9.5	11.1	53.9	62.6	11.1	12.9	6.9	8.0	3.7	4.4	.8	.9	.1	.1	86.1	100	9.7

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: CLE CLEVELAND, OH

CLASS 2 / DAY

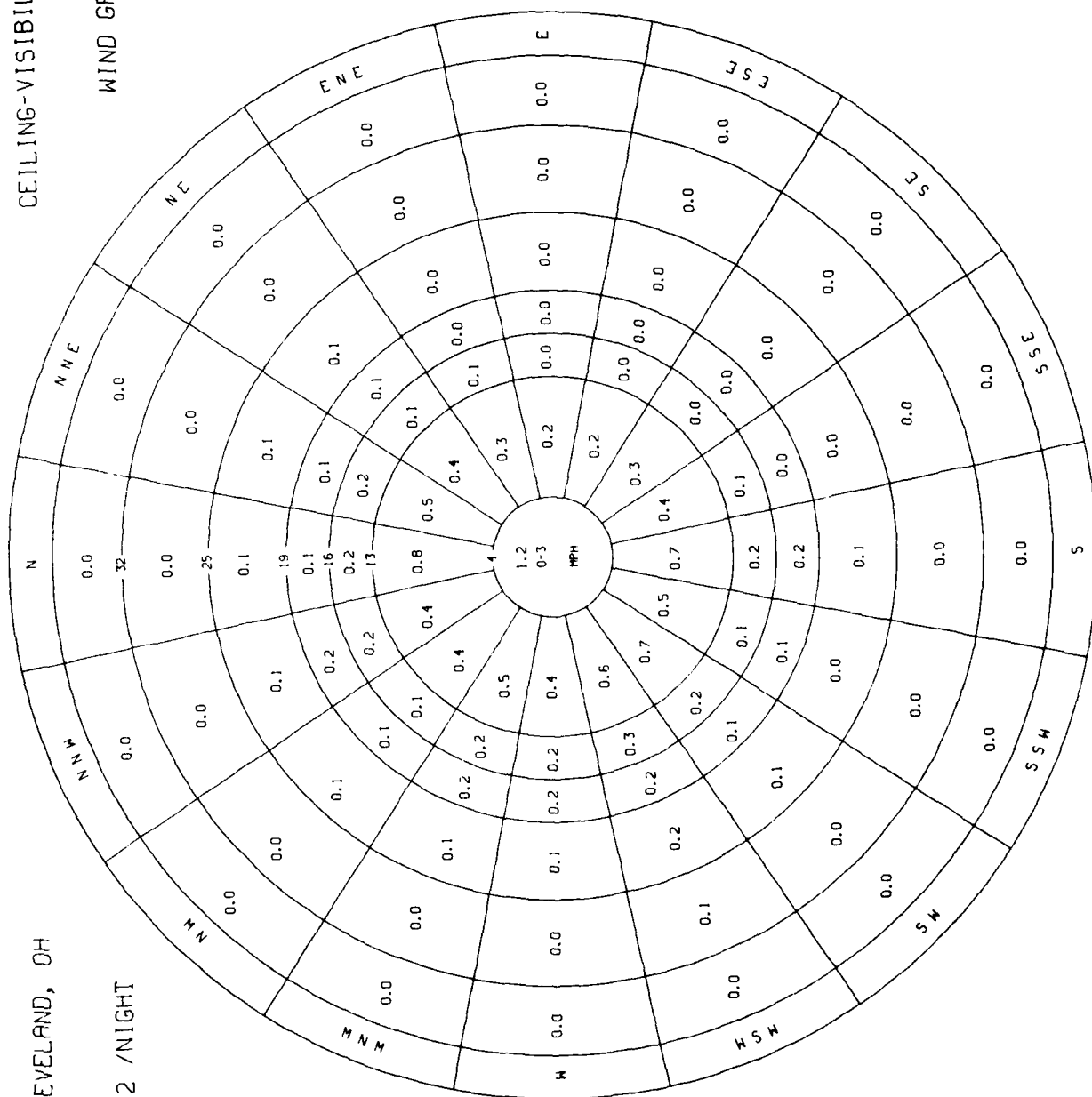
NO. OBS.: 7810

STATION NUMBER: 14820

D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.1	.4	1.0	6.4	.3	2.0	.1	.9	.1	.5	.0	.0	.0	.0	1.6	10.2	11.0
NNE	.0	.2	.6	4.0	.2	1.4	.1	.8	.1	.6	.0	.1	.0	.0	1.1	7.2	12.1
NE	.0	.3	.4	2.8	.1	.9	.1	.3	.1	.3	.0	.1	.0	.0	.7	4.7	11.2
ENE	.0	.1	.3	1.6	.1	.4	.0	.3	.0	.0	.0	.0	.0	.0	.4	2.4	10.1
E	.0	.2	.3	1.6	.0	.3	.0	.2	.0	.1	.0	.0	.0	.0	.4	2.4	10.0
ESE	.0	.2	.3	1.9	.1	.4	.0	.1	.0	.1	.0	.0	.0	.0	.4	2.8	9.8
SE	.1	.4	.4	2.5	.1	.5	.0	.2	.0	.0	.0	.0	.0	.0	.6	3.6	8.7
SSE	.1	.5	.4	2.8	.1	.8	.1	.3	.0	.2	.0	.0	.0	.0	.7	4.6	9.7
S	.1	.5	.7	4.8	.3	1.7	.2	1.1	.1	.5	.0	.0	.0	.0	1.3	8.6	11.2
SSW	.0	.3	.6	4.1	.1	.9	.1	.6	.0	.3	.0	.0	.0	.0	1.0	6.3	10.5
SW	.1	.3	.7	4.8	.2	1.4	.2	1.0	.1	.7	.0	.1	.0	.1	1.3	8.4	11.6
WSW	.0	.2	.7	4.4	.3	1.7	.3	1.6	.2	1.1	.0	.3	.0	.1	1.5	9.5	13.3
W	.0	.2	.5	3.3	.2	1.5	.2	1.1	.1	.9	.0	.2	.0	.0	1.1	7.2	13.4
WNW	.0	.1	.5	3.3	.3	1.9	.2	1.5	.1	.9	.0	.2	.0	.0	1.2	8.0	13.7
NW	.0	.1	.5	2.9	.2	1.3	.1	.9	.1	.5	.0	.1	.0	.0	.9	5.8	12.5
NNW	.0	.2	.5	3.1	.2	1.1	.1	.8	.1	.6	.0	.1	.0	.0	1.0	6.1	12.3
CALM	.3	2.2													.3	2.2	
TOTAL	1.0	6.5	8.5	54.2	2.8	18.2	1.9	12.0	1.2	7.5	.2	1.4	.0	.3	15.6	100	11.4

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: CLE CLEVELAND, OH

CLASS 2 / NIGHT

NO. OBS.: 5640

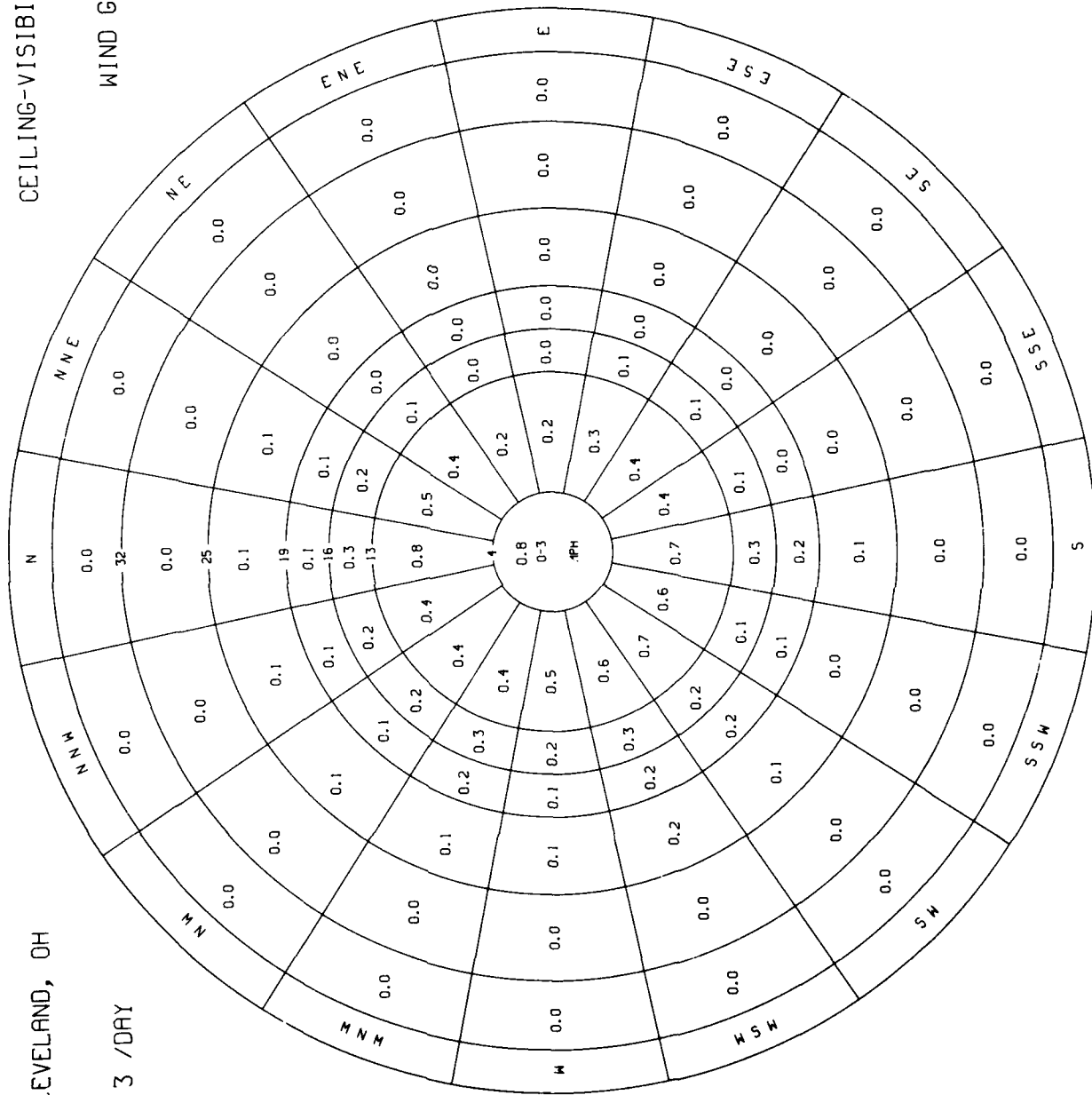
STATION NUMBER: 14820

D I R	SPEED GROUPS (MPH)																					AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL							
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D						
N	.1	.4	.8	5.5	.2	1.6	.1	1.0	.1	.5	.0	.0	.0	.0	1.2	9.0	10.9					
NNE	.0	.3	.5	3.8	.2	1.5	.1	.9	.1	.5	.0	.1	.0	.0	1.0	7.1	11.8					
NENE	.1	.4	.4	2.8	.1	.9	.1	.6	.1	.6	.0	.1	.0	.0	.8	5.4	11.7					
ENE	.0	.1	.3	2.0	.1	.4	.0	.2	.0	.1	.0	.0	.0	.0	.4	2.8	9.7					
E	.0	.3	.2	1.7	.0	.3	.0	.1	.0	.0	.0	.0	.0	.0	.3	2.4	9.0					
ESE	.0	.3	.2	1.7	.0	.2	.0	.1	.0	.1	.0	.0	.0	.0	.3	2.4	8.7					
SE	.1	.4	.3	2.0	.0	.2	.0	.1	.0	.1	.0	.0	.0	.0	.4	2.8	8.2					
SSE	.1	.5	.4	2.7	.1	.6	.0	.3	.0	.1	.0	.0	.0	.0	.6	4.3	9.2					
S	.1	.7	.7	4.8	.2	1.3	.2	1.2	.1	.5	.0	.1	.0	.0	1.2	8.5	10.7					
SSW	.1	.4	.5	3.4	.1	.9	.1	.7	.0	.2	.0	.1	.0	.0	.8	5.6	10.3					
SW	.1	.5	.7	5.1	.2	1.5	.1	1.0	.1	.5	.0	.1	.0	.0	1.2	8.7	11.0					
WSW	.0	.3	.6	4.2	.3	2.2	.2	1.7	.2	1.2	.1	.4	.0	.1	1.4	10.0	13.5					
W	.0	.1	.4	3.2	.2	1.6	.2	1.4	.1	.9	.0	.3	.0	.0	1.1	7.6	13.7					
WNW	.0	.1	.5	3.7	.2	1.6	.2	1.4	.1	.8	.0	.3	.0	.0	1.1	8.0	13.0					
NW	.1	.4	.4	3.2	.1	.9	.1	.9	.1	.7	.0	.0	.0	.0	.9	6.1	11.8					
NNW	.0	.3	.4	3.0	.2	1.1	.2	1.1	.1	.6	.0	.1	.0	.0	.9	6.3	12.5					
CALM	.4	3.2													.4	3.2						
TOTAL	1.2	8.7	7.3	52.8	2.3	16.9	1.8	12.7	1.0	7.2	.2	1.6	.0	.2	13.9	100	11.1					

CEILING-VISIBILITY
WIND GRAPH

CLE CLEVELAND, OH

CLASS 3 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: CLE CLEVELAND, OH

PERIOD: 1948-1978

CLASS 3 / DAY

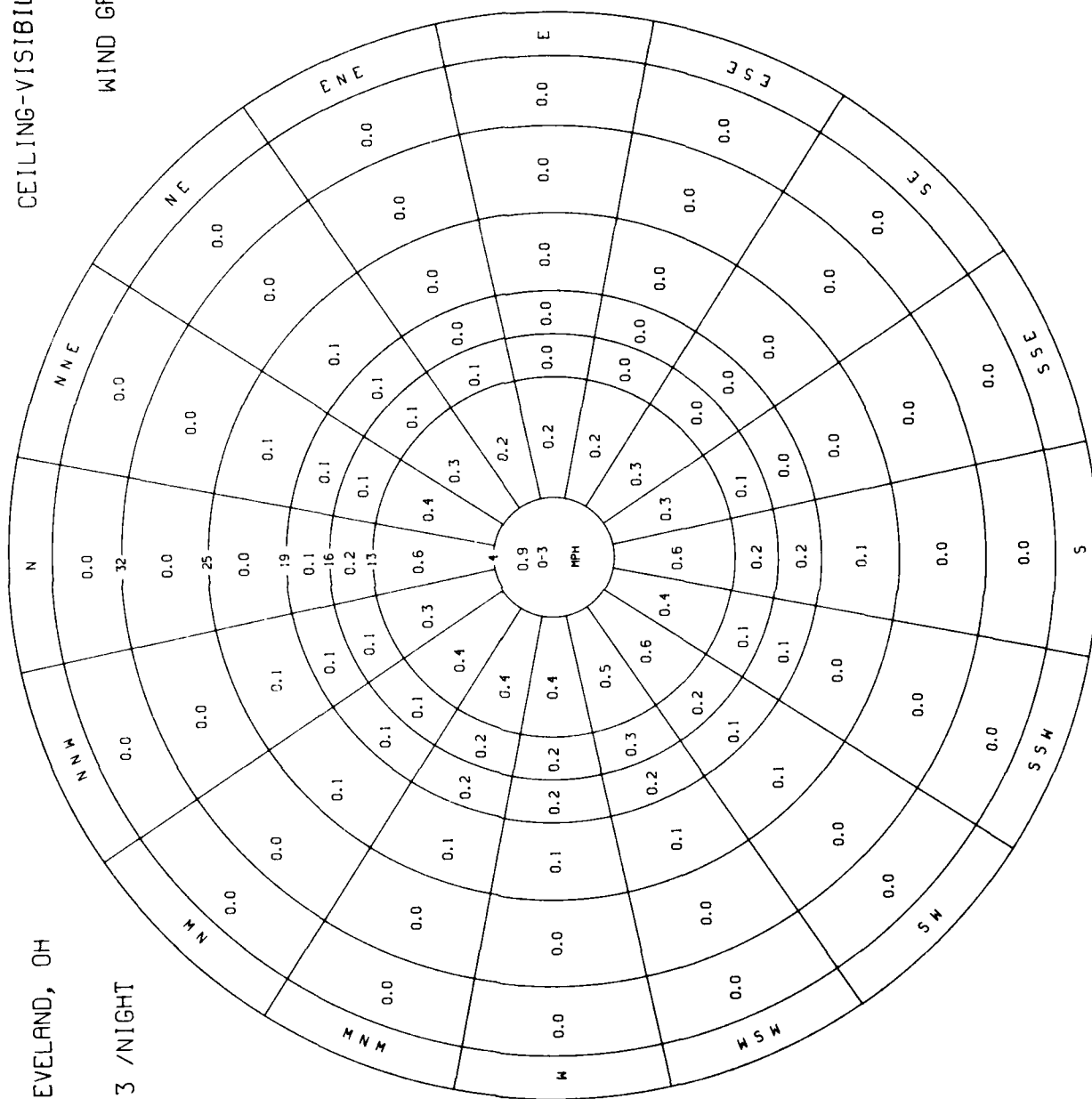
STATION NUMBER: 14820

NO. OBS.: 6847

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.1	.4	.8	6.1	.3	1.9	.1	.9	.1	.5	.0	.0	.0	.0	1.3	9.8	11.0
NNE	.0	.1	.5	3.7	.2	1.4	.1	.9	.1	.5	.0	.1	.0	.0	.9	6.7	12.1
NE	.0	.2	.4	2.6	.1	.8	.0	.2	.0	.2	.0	.0	.0	.0	.6	4.1	10.8
ENE	.0	.1	.2	1.6	.0	.4	.0	.2	.0	.0	.0	.0	.0	.0	.3	2.3	10.1
E	.0	.2	.2	1.7	.0	.3	.0	.2	.0	.1	.0	.0	.0	.0	.4	2.6	10.1
ESE	.0	.2	.3	2.0	.1	.4	.0	.2	.0	.1	.0	.0	.0	.0	.4	2.9	10.0
SE	.1	.4	.4	2.6	.1	.5	.0	.2	.0	.0	.0	.0	.0	.0	.5	3.8	8.7
SSE	.1	.5	.4	3.0	.1	.9	.0	.4	.0	.2	.0	.0	.0	.0	.7	4.9	9.7
S	.1	.4	.7	5.0	.3	1.9	.2	1.2	.1	.6	.0	.0	.0	.0	1.2	9.1	11.5
SSW	.0	.3	.6	4.3	.1	1.1	.1	.7	.0	.3	.0	.0	.0	.0	.9	6.8	10.5
SW	.0	.3	.7	5.1	.2	1.5	.2	1.2	.1	.7	.0	.1	.0	.0	1.2	9.0	11.6
WSW	.0	.2	.6	4.6	.3	1.9	.2	1.8	.2	1.1	.0	.3	.0	.1	1.4	9.9	13.3
W	.0	.1	.5	3.3	.2	1.5	.1	1.1	.1	.9	.0	.2	.0	.0	1.0	7.1	13.3
WNW	.0	.1	.4	3.2	.3	1.9	.2	1.5	.1	.9	.0	.2	.0	.0	1.1	7.8	13.7
NW	.0	.1	.4	2.7	.2	1.2	.1	.8	.1	.5	.0	.0	.0	.0	.7	5.4	12.5
NNW	.0	.2	.4	3.1	.2	1.2	.1	.8	.1	.6	.0	.1	.0	.0	.8	5.9	12.4
CALM	.3	2.1													.3	2.1	
TOTAL	.8	6.1	7.5	54.4	2.5	18.5	1.7	12.1	1.0	7.5	.2	1.2	.0	.1	13.7	100	11.5

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: CLE CLEVELAND, OH

PERIOD: 1948-1978

CLASS 3 / NIGHT

STATION NUMBER: 14820

NO. OBS.: 4783

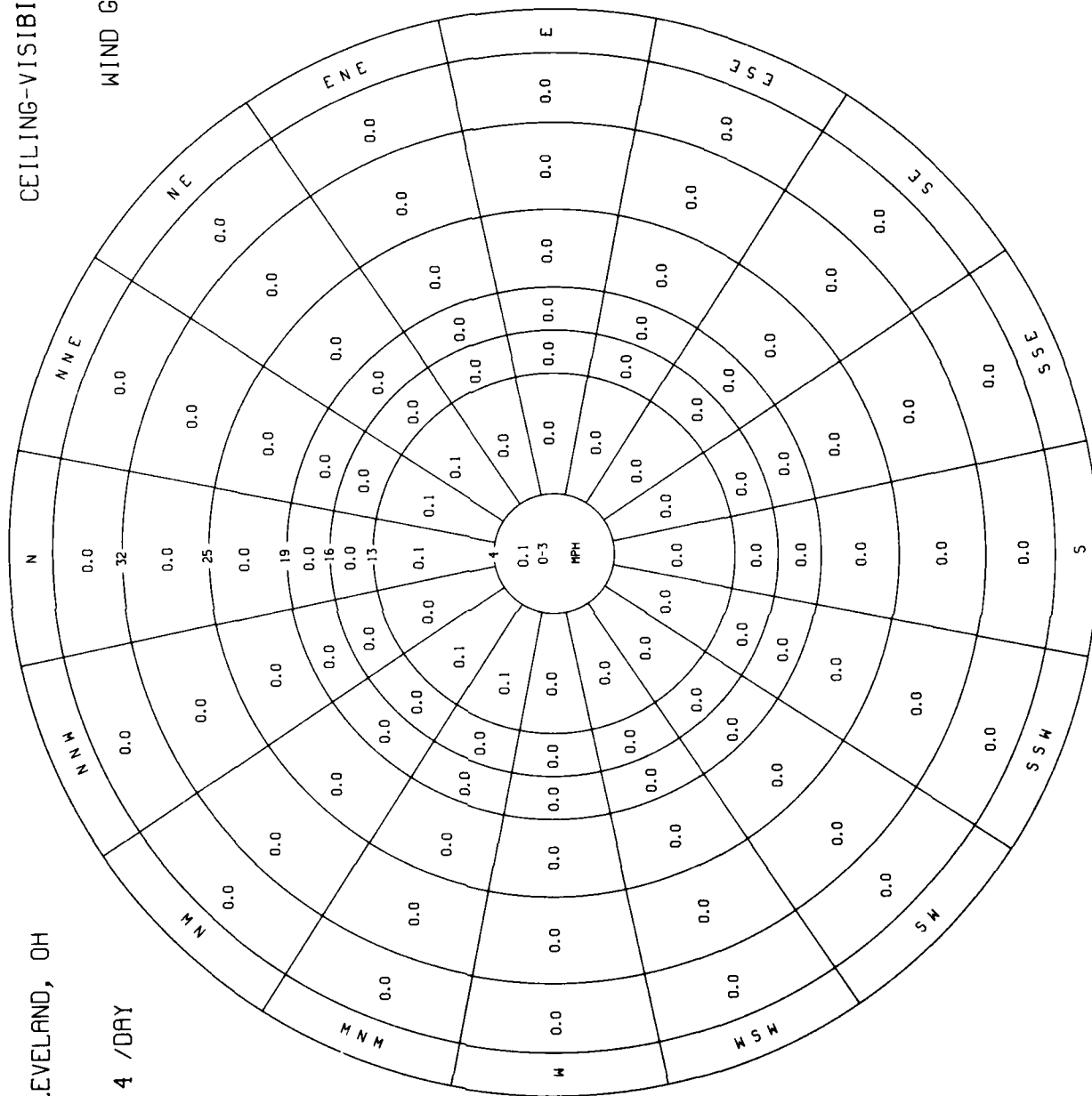
D I R	SPEED GROUPS (MPH)																		AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL				
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D			
N	.0	.3	.6	4.8	.2	1.6	.1	1.0	.0	.4	.0	.0	.0	.0	1.0	8.1	11.1		
NNE	.0	.1	.4	3.7	.1	1.2	.1	1.0	.1	.5	.0	.1	.0	.0	.8	6.7	12.0		
NENE	.1	.4	.3	2.4	.1	.9	.1	.6	.1	.5	.0	.0	.0	.0	.6	4.9	11.5		
ENE	.0	.1	.2	2.0	.1	.5	.0	.1	.0	.0	.0	.0	.0	.0	.3	2.7	9.6		
E	.0	.2	.2	1.9	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.3	2.6	9.1		
ESE	.0	.3	.2	1.8	.0	.3	.0	.1	.0	.1	.0	.0	.0	.0	.3	2.5	8.9		
SE	.0	.4	.3	2.2	.0	.2	.0	.1	.0	.1	.0	.0	.0	.0	.4	3.0	8.3		
SSE	.1	.5	.3	2.8	.1	.6	.0	.4	.0	.1	.0	.0	.0	.0	.5	4.5	9.4		
S	.1	.7	.6	5.0	.2	1.4	.2	1.4	.1	.5	.0	.0	.0	.0	1.1	9.0	10.8		
SSW	.1	.4	.4	3.4	.1	1.0	.1	.7	.0	.2	.0	.1	.0	.0	.7	6.0	10.6		
SW	.1	.4	.6	5.3	.2	1.7	.1	1.1	.1	.6	.0	.1	.0	.0	1.1	9.2	11.2		
WSW	.0	.2	.5	4.5	.3	2.5	.2	2.0	.1	1.2	.0	.4	.0	.1	1.3	10.7	13.5		
W	.0	.1	.4	3.3	.2	1.6	.2	1.6	.1	1.0	.0	.2	.0	.0	.9	7.8	13.8		
WNW	.0	.1	.4	3.5	.2	1.7	.2	1.5	.1	.9	.0	.2	.0	.0	.9	7.9	13.3		
NW	.0	.4	.4	3.0	.1	.9	.1	.8	.1	.7	.0	.0	.0	.0	.7	5.9	12.0		
NNW	.0	.3	.3	2.7	.1	.9	.1	1.0	.1	.6	.0	.1	.0	.0	.7	5.6	12.4		
CALM	.3	2.9													.3	2.9			
TOTAL	.9	7.9	6.2	52.4	2.1	17.4	1.6	13.5	.9	7.3	.2	1.3	.0	.2	11.8	100	11.3		

CEILING-VISIBILITY

WIND GRAPH

CLE CLEVELAND, OH

CLASS 4 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: CLE CLEVELAND, OH

PERIOD: 1948-1978

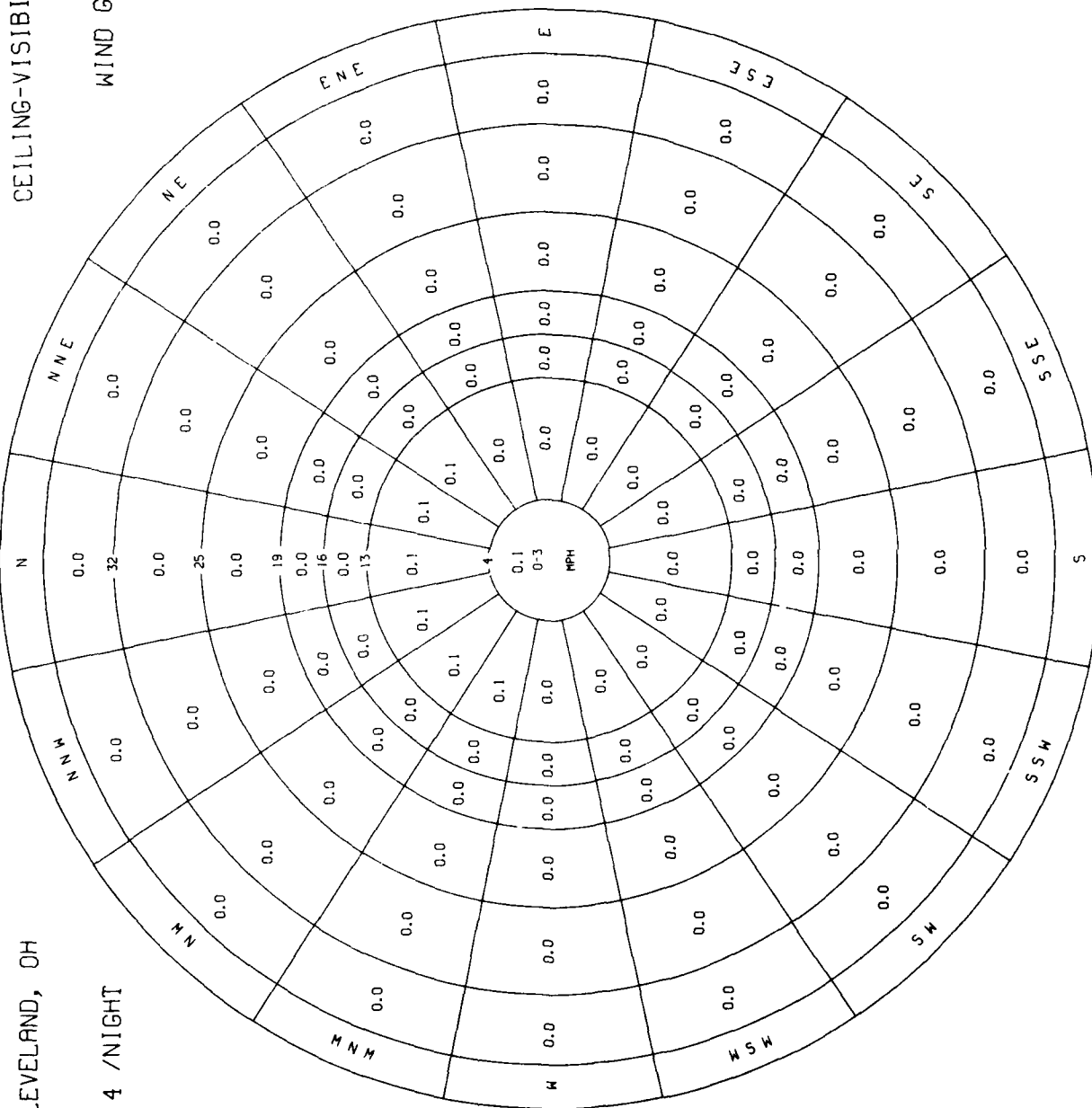
CLASS 4 / DAY

STATION NUMBER: 14820

NO. OBS.: 726

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B		C	D
N	.0	.4	.1	8.5	.0	3.0	.0	1.2	.0	.8	.0	.1	.0	.0	.2	14.2	11.1
NNE	.0	.4	.1	6.5	.0	2.5	.0	.8	.0	1.7	.0	.1	.0	.0	.2	12.0	12.0
NE	.0	.7	.1	3.9	.0	1.8	.0	1.0	.0	1.1	.0	.6	.0	.0	.1	9.0	12.7
ENE	.0	.3	.0	2.1	.0	.8	.0	.8	.0	.0	.0	.0	.0	.0	.1	4.0	10.8
E	.0	.3	.0	.7	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	1.1	8.5
ESE	.0	.3	.0	1.5	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1	8.2
SE	.0	.4	.0	1.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	7.9
SSE	.0	.1	.0	1.8	.0	.3	.0	.4	.0	.0	.0	.0	.0	.0	.0	2.6	9.4
S	.0	.3	.0	2.5	.0	.6	.0	.7	.0	.0	.0	.0	.0	.0	.1	4.0	10.2
SSW	.0	.0	.0	1.8	.0	.1	.0	.1	.0	.1	.0	.0	.0	.0	.0	2.2	9.2
SW	.0	.1	.0	2.3	.0	.4	.0	.4	.0	.3	.0	.1	.0	.0	.1	3.7	10.7
WSW	.0	.4	.0	3.0	.0	1.0	.0	.4	.0	1.0	.0	.6	.0	.4	.1	6.7	14.4
W	.0	.1	.0	2.6	.0	1.8	.0	1.4	.0	1.0	.0	.3	.0	.0	.1	7.2	14.1
WNW	.0	.1	.1	3.9	.0	2.3	.0	2.2	.0	.8	.0	.3	.0	.0	.1	9.6	13.0
NW	.0	.0	.1	4.3	.0	1.8	.0	2.1	.0	.7	.0	.3	.0	.0	.1	9.1	13.2
NNW	.0	.4	.0	3.3	.0	.7	.0	1.4	.0	1.4	.0	.3	.0	.0	.1	7.4	13.1
CALM	.0	2.8													.0	2.9	
TOTAL	.1	7.2	.7	50.1	.3	17.8	.2	13.1	.1	8.8	.0	2.6	.0	.4	1.5	100	11.7

CEILING-VISIBILITY WIND GRAPH



CLE CLEVELAND, OH
CLASS 4 / NIGHT

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: CLE CLEVELAND, OH

PERIOD: 1948-1978

CLASS 4 / NIGHT

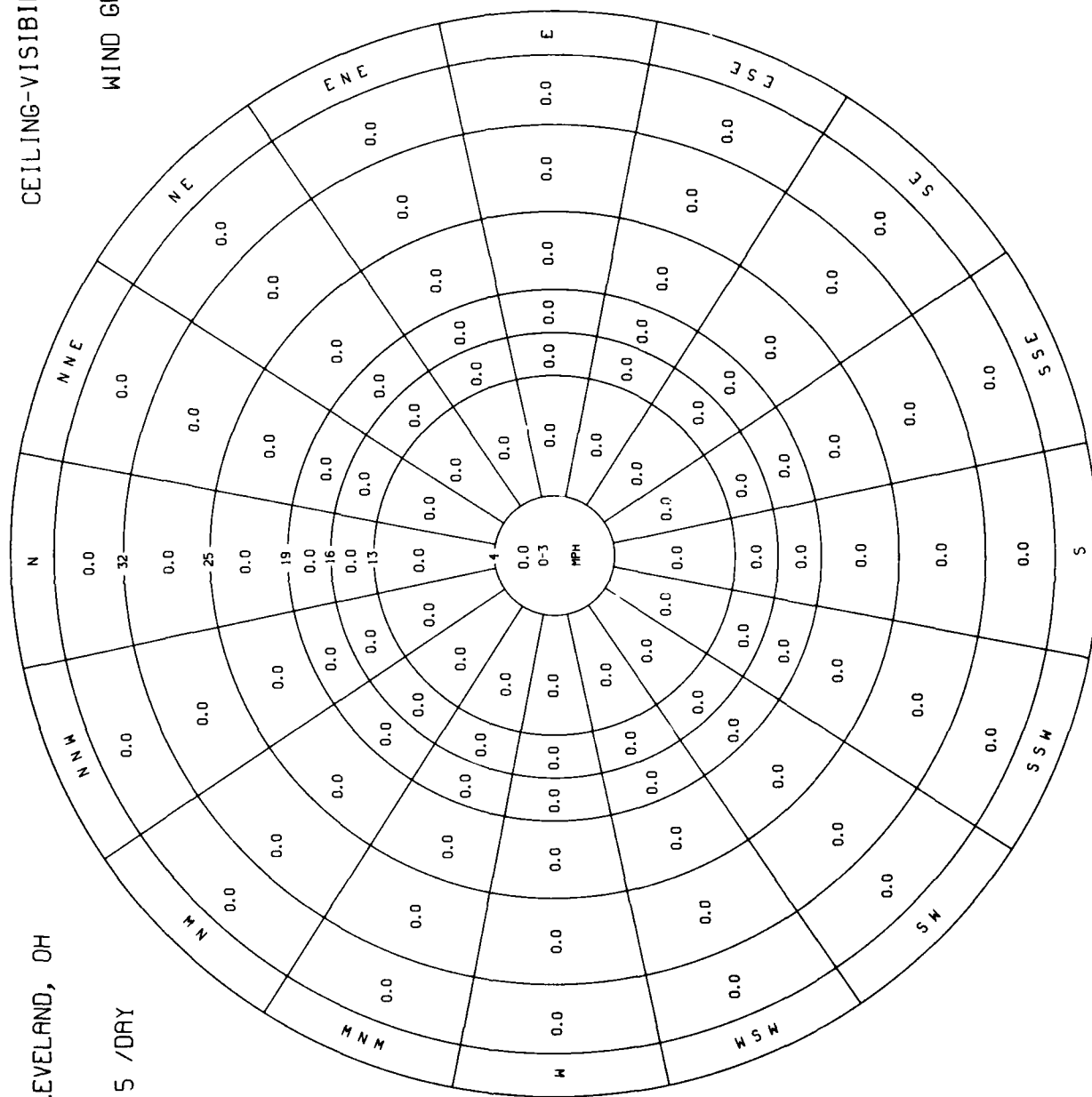
STATION NUMBER: 14820

NO. OBS.: 566

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED			
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C	D
N	.0	1.1	.1	8.8	.0	2.1	.0	1.1	.0	1.4	.0	.0	.0	.0	.0	.2	14.5	10.8
NNE	.0	1.4	.1	3.7	.0	3.2	.0	.5	.0	.7	.0	.2	.0	.2	.0	.1	9.9	11.7
NE	.0	.0	.1	5.1	.0	1.4	.0	.9	.0	1.8	.0	.2	.0	.0	.0	.1	9.4	13.2
ENE	.0	.4	.0	2.3	.0	.0	.0	.5	.0	.4	.0	.0	.0	.0	.0	.0	3.5	10.0
E	.0	.2	.0	.9	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	1.4	10.2
ESE	.0	.2	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	6.2
SE	.0	.4	.0	1.2	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	1.9	8.9
SSE	.0	.4	.0	1.4	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	2.5	3.3
S	.0	.0	.0	2.3	.0	1.2	.0	.5	.0	.4	.0	.2	.0	.0	.0	.1	4.6	12.1
SSW	.0	.4	.0	2.3	.0	.2	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	3.4	8.7
SW	.0	.0	.0	2.7	.0	.9	.0	.4	.0	.0	.0	.0	.0	.0	.0	.1	3.9	10.4
WSW	.0	.4	.0	3.2	.0	.9	.0	.4	.0	1.2	.0	.4	.0	.0	.0	.1	6.4	13.1
W	.0	.4	.0	3.0	.0	1.6	.0	.4	.0	1.1	.0	.9	.0	.0	.0	.1	7.2	14.2
WNW	.0	.4	.1	5.1	.0	1.4	.0	1.1	.0	.4	.0	1.1	.0	.0	.0	.1	9.4	12.3
NW	.0	.0	.1	4.2	.0	.9	.0	1.6	.0	.4	.0	.0	.0	.2	.1	.1	7.2	12.4
NNW	.0	.2	.1	4.6	.0	2.3	.0	2.5	.0	1.2	.0	.5	.0	.0	.2	.2	11.3	13.7
CALM	.0	2.5													.0	.2	5	
TOTAL	.1	8.0	.7	51.8	.2	16.6	.1	10.6	.1	9.4	.0	3.4	.0	.4	1.4	100		11.6

CEILING-VISIBILITY

WIND GRAPH



CLE CLEVELAND, OH

CLASS 5 / DAY

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: CLE CLEVELAND, OH

PERIOD: 1948-1978

CLASS 5 / DAY

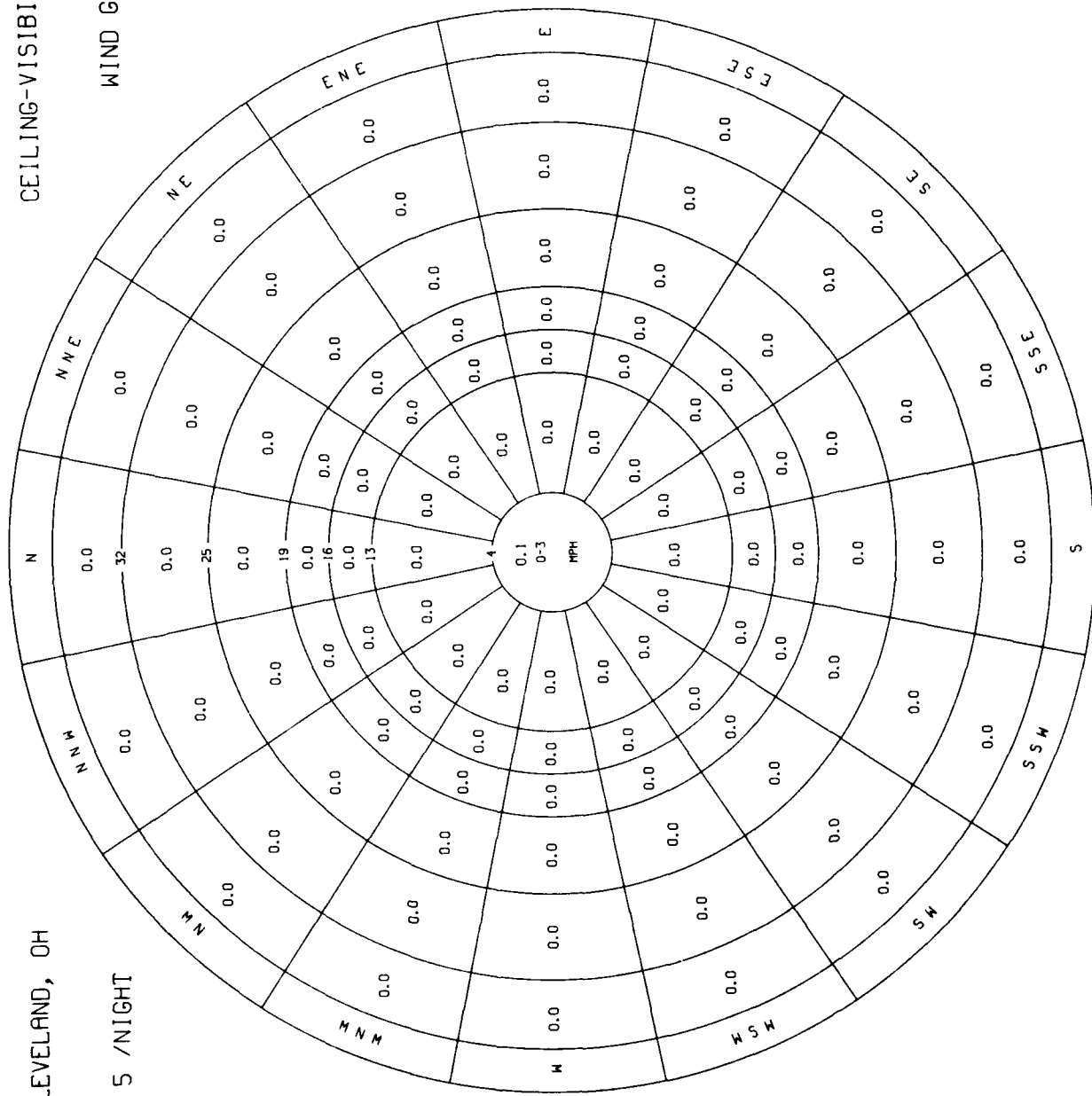
STATION NUMBER: 14820

NO. OBS.: 117

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.0	.9	.0	7.7	.0	2.6	.0	.9	.0	.0	.0	.0	.0	.0	.0	12.0	9.8
NNE	.0	.0	.0	6.8	.0	.9	.0	.0	.0	1.7	.0	.0	.0	1.7	.0	11.1	14.5
NE	.0	.0	.0	6.8	.0	.0	.0	1.7	.0	3.4	.0	.9	.0	.0	.0	12.8	14.4
ENE	.0	.0	.0	1.7	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	2.6	10.0
E	.0	.9	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	4.0
ESE	.0	.9	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	4.0
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SSE	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9
S	.0	1.7	.0	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.1	5.8
SSW	.0	.0	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	8.0
SW	.0	.9	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	6.5
WSW	.0	.0	.0	4.3	.0	.0	.0	.9	.0	.9	.0	.0	.0	.0	.0	6.0	10.7
W	.0	1.7	.0	6.0	.0	.9	.0	.9	.0	3.4	.0	.9	.0	.0	.0	13.7	13.0
WNW	.0	.0	.0	6.0	.0	1.7	.0	.9	.0	.9	.0	1.7	.0	.9	.0	12.0	14.5
NW	.0	.0	.0	4.3	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.0	10.4
NNW	.0	.9	.0	4.3	.0	1.7	.0	.9	.0	.0	.0	.0	.0	.0	.0	7.7	9.2
CALM	.0	2.6													.0	2.6	
TOTAL	.0	10.3	.1	57.3	.0	9.4	.0	6.8	.0	10.3	.0	3.4	.0	2.6	.2	100	11.2

CEILING-VISIBILITY

WIND GRAPH



CLE CLEVELAND, OH

CLASS 5 /NIGHT

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: CLE CLEVELAND, OH

CLASS 5 / NIGHT

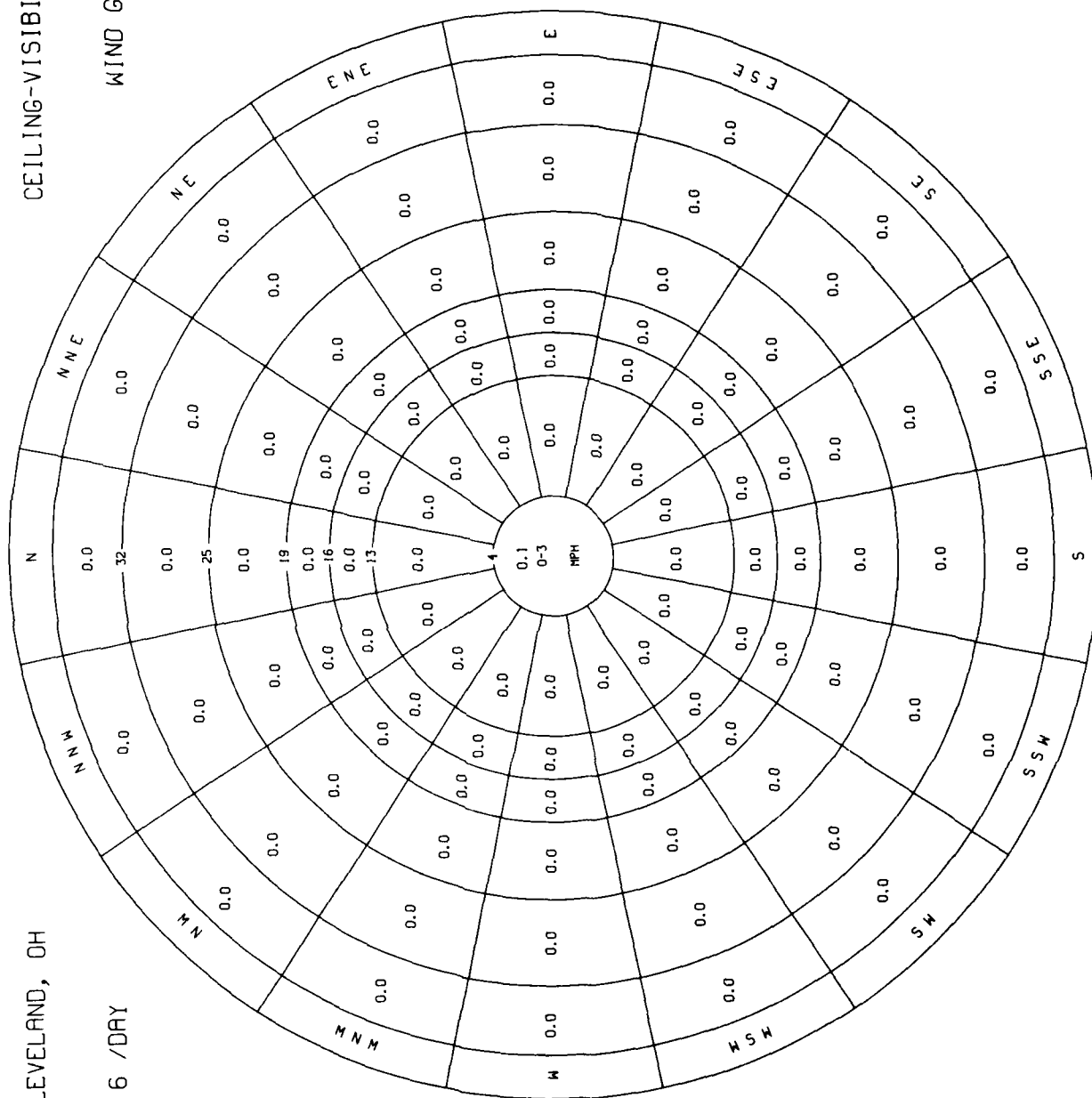
NO. OBS.: 125

STATION NUMBER: 14820

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.0	.8	.0	10.4	.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	13.6	8.3
NNE	.0	1.6	.0	7.2	.0	1.6	.0	.0	.0	.8	.0	.0	.0	.0	.0	11.2	9.7
NE	.0	.8	.0	5.6	.0	.8	.0	.0	.0	.8	.0	.0	.0	.0	.0	8.0	8.1
ENE	.0	.8	.0	2.4	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	4.0	9.2
E	.0	.8	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	4.5
ESE	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	9.5
SE	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	3.0
SSE	.0	.8	.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	5.5
S	.0	.0	.0	4.8	.0	.8	.0	.8	.0	.0	.0	.0	.0	.0	.0	6.4	10.2
SSW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SW	.0	1.6	.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0	5.6
WSW	.0	1.6	.0	3.2	.0	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	5.6	9.3
W	.0	.0	.0	3.2	.0	1.6	.0	1.6	.0	.8	.0	.0	.0	.0	.0	7.2	12.3
WNW	.0	.0	.0	4.0	.0	1.6	.0	.0	.0	.8	.0	.0	.0	.0	.0	6.4	10.5
NW	.0	1.6	.0	4.0	.0	.8	.0	.8	.0	.0	.0	.0	.0	.0	.0	7.2	8.9
NNW	.0	.8	.0	4.0	.0	2.4	.0	1.6	.0	.8	.0	.0	.0	.0	.0	9.6	11.5
CALM	.0	9.6													.0	9.6	
TOTAL	1	21.6	2	56.0	0	12.0	0	5.6	0	4.0	0	.8	0	.0	3	100	8.4

CEILING-VISIBILITY

WIND GRAPH



CLE CLEVELAND, OH

CLASS 6 /DAY

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: CLE CLEVELAND, OH

CLASS 6 / DAY

NO. OBS.: 120

STATION NUMBER: 14820

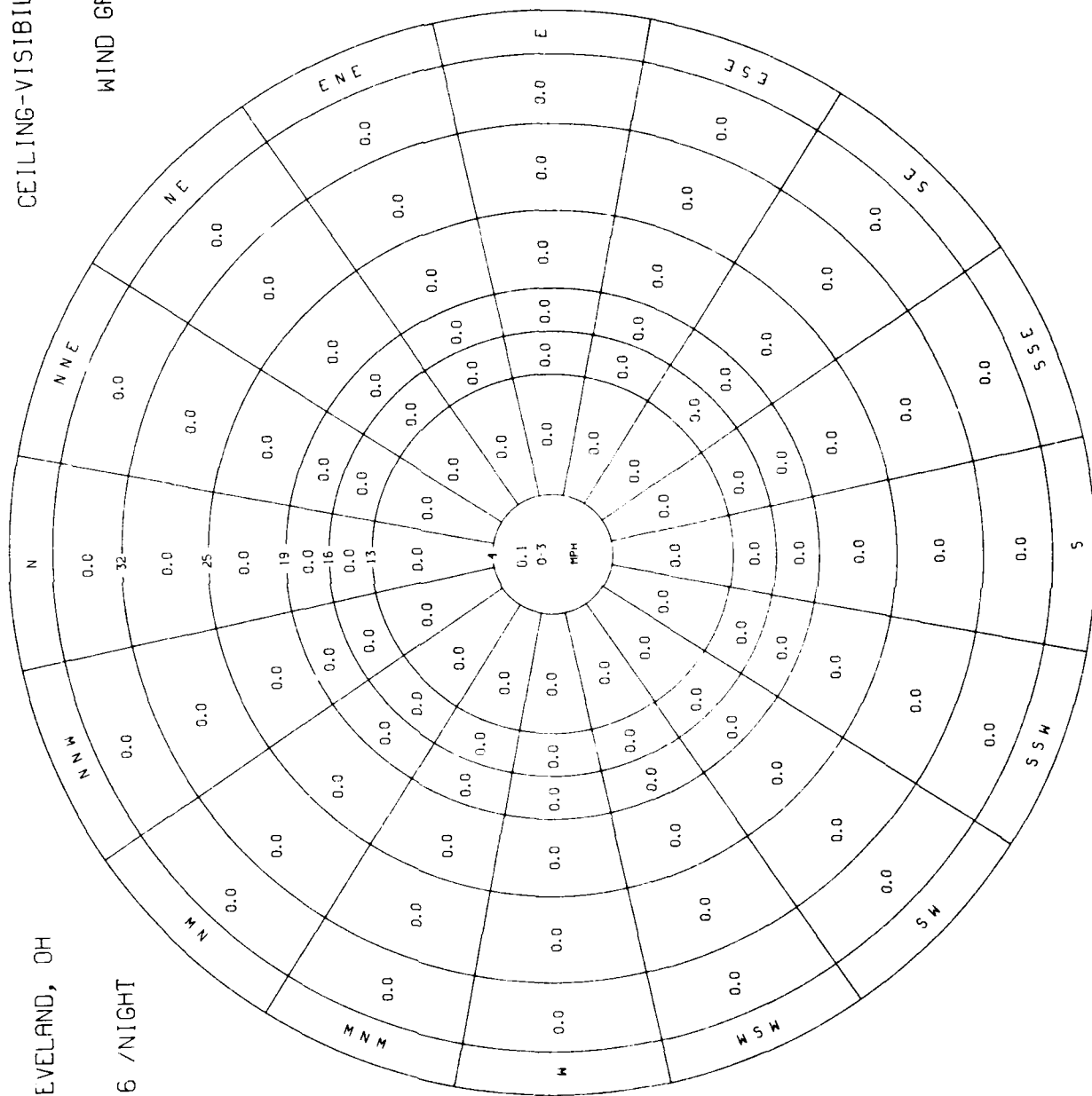
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.0	.0	10.8	.0	.8	.0	.8	.0	.0	.0	.0	.0	.0	.0 12.5
NNE	.0	1.7	.0	4.2	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0 6.7
NE	.0	.8	.0	3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 4.2
ENE	.0	.8	.0	.8	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.5
E	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.7
ESE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .0
SE	.0	.8	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.5
SSE	.0	2.5	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.3
S	.0	4.2	.0	7.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 11.7
SSW	.0	.8	.0	5.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 7.5
SW	.0	1.7	.0	5.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 10.6
WSW	.0	.0	.0	4.2	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0 10.0
W	.0	.8	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 6.7
WNW	.0	.0	.0	1.7	.0	1.7	.0	.0	.0	.0	.0	.8	.0	.0	.0 4.2
NW	.0	1.7	.0	5.0	.0	1.7	.0	.0	.0	.0	.0	.8	.0	.0	.0 5.8
NNW	.0	.0	.0	5.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 9.2
CALM	.0	5.8													.0 5.8
TOTAL	.1	21.7	.1	60.8	.0	6.7	.0	1.7	.0	1.7	.0	2.5	.0	5.0	.2 100
															9.3

CEILING-VISIBILITY

WIND GRAPH

CLE CLEVELAND, OH

CLASS 6 / NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: CLE CLEVELAND, OH

PERIOD: 1948-1978

CLASS 6 / NIGHT

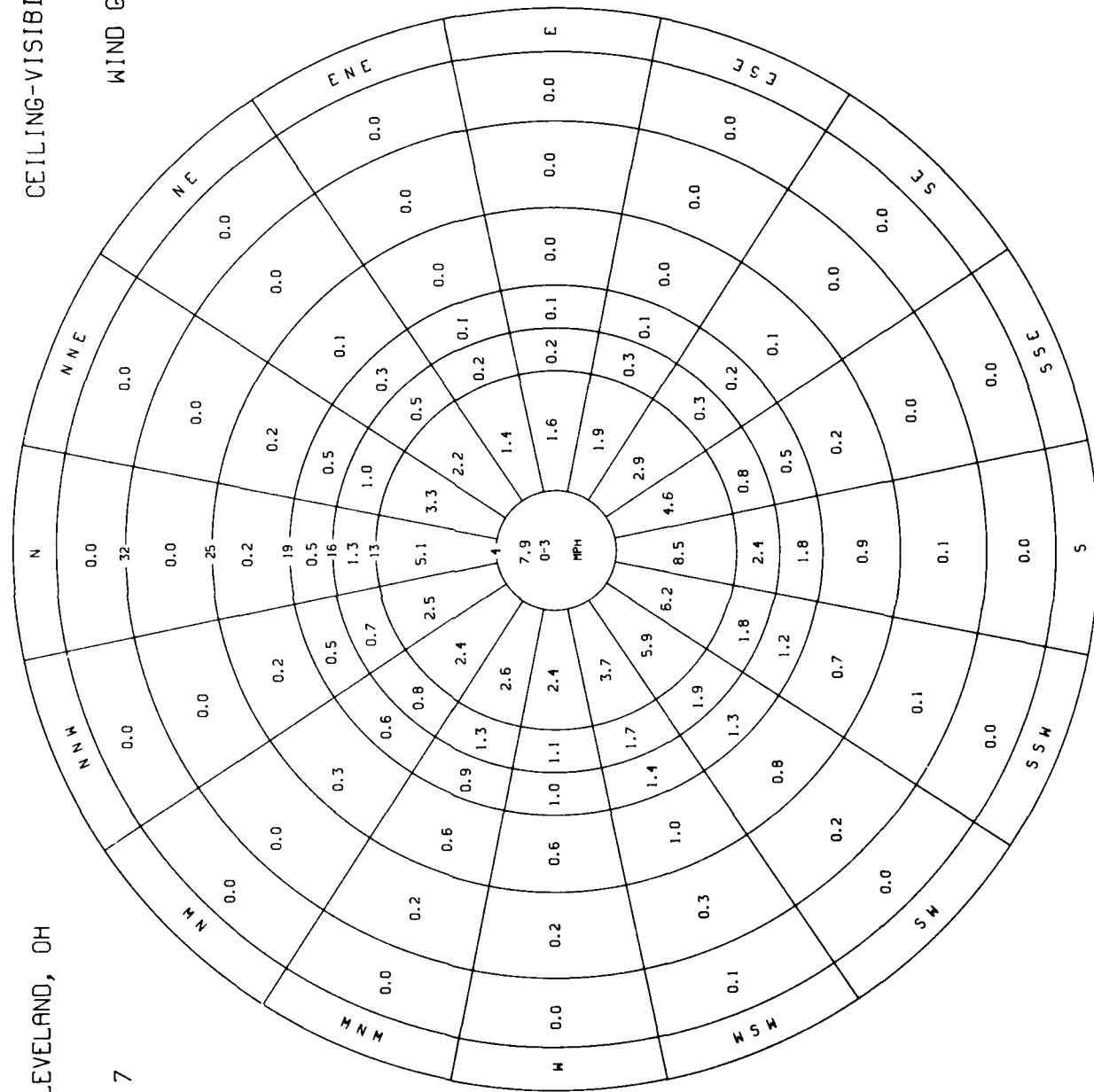
STATION NUMBER: 14820

NO. OBS.: 166

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.0	.0	9.6	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	9.1
NNE	.0	.0	.0	3.0	.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	10.8
N	.0	.0	.0	4.2	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	10.0
ENE	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	13.0
E	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0
ESE	.0	.6	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.7
SE	.0	1.2	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0
SSE	.0	2.4	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.6
S	.0	3.0	.0	7.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.6
SSW	.0	.0	.0	7.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.5
SW	.0	2.4	.0	9.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.6	8.5
WSW	.0	.0	.0	2.4	.0	.6	.0	.0	.0	.0	.0	1.2	.0	.0	14.3
W	.0	.6	.0	1.8	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	7.4
WNW	.0	.0	.0	4.8	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	7.1
NW	.0	1.8	.0	5.4	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	7.8
NNW	.0	.6	.0	5.4	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	9.0
CALM	.0	10.2													
TOTAL	1.24.1		3.65.1		.0	6.6	.0	.6	.0	.6	.0	2.4	.0	.6	7.1

CLE CLEVELAND, OH

CLASS 7

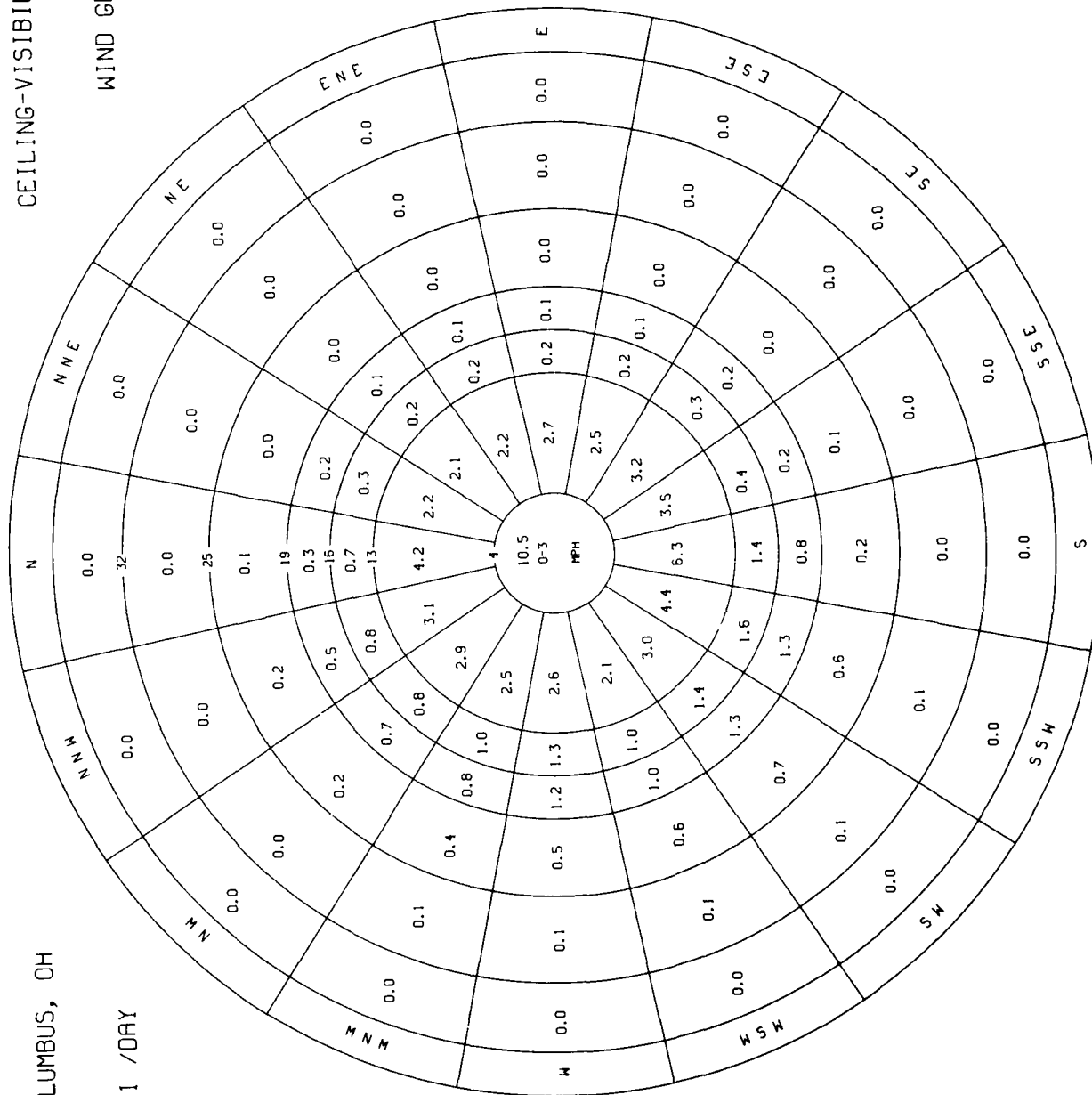


CEILING-VISIBILITY

WIND GRAPH

CMH COLUMBUS, OH

CLASS 1 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: CMH COLUMBUS, OH

PERIOD: 1948-1978

CLASS 1 / DAY

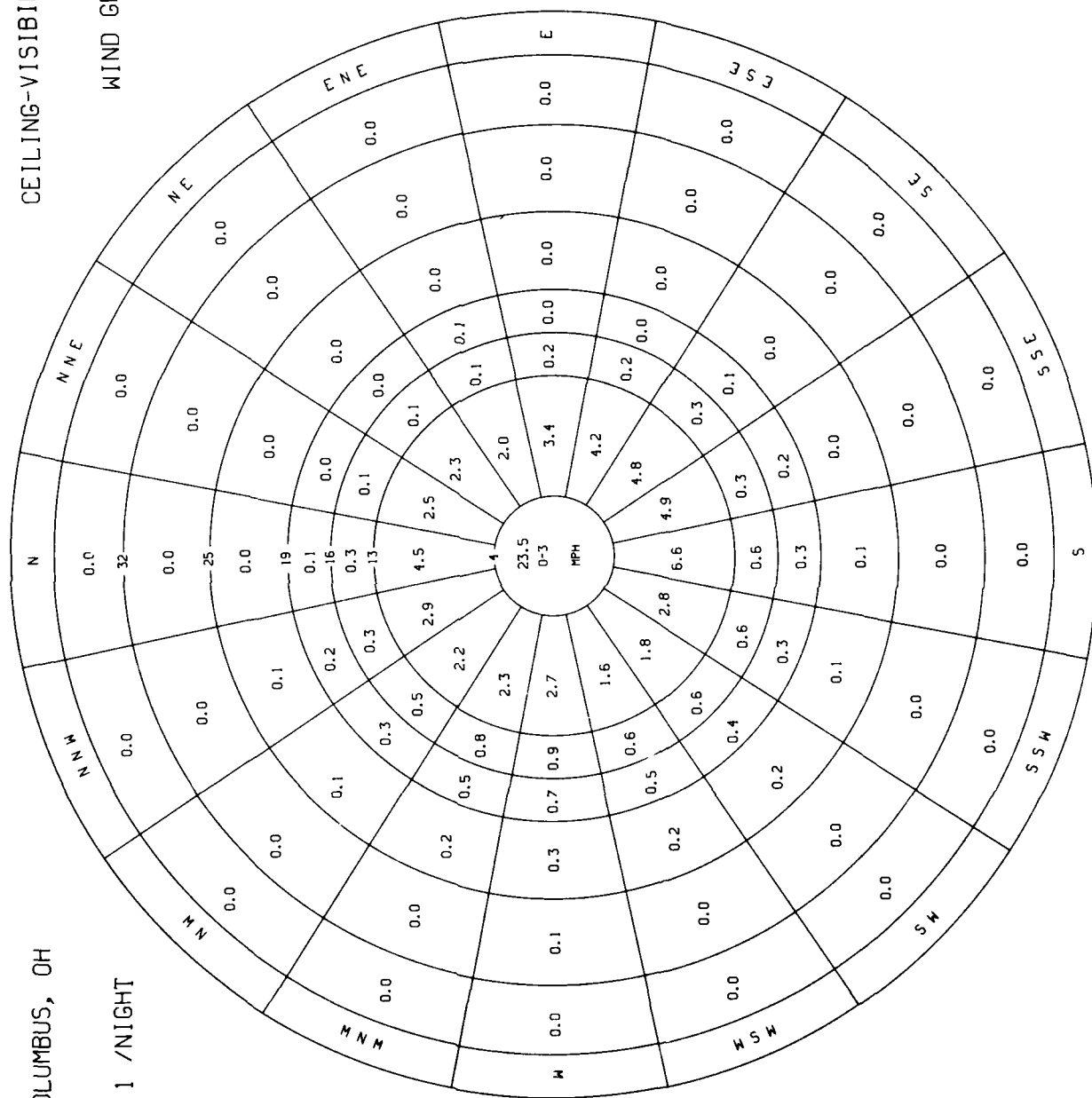
STATION NUMBER: 14821

NO. OBS.: 42548

D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.6	.7	4.2	4.9	.7	.8	.3	.4	.1	.1	.0	.0	.0	.0	5.9	6.9	8.8
NNE	.4	.5	2.2	2.5	.3	.4	.2	.2	.0	.0	.0	.0	.0	.0	3.1	3.6	8.4
NE	.5	.6	2.1	2.4	.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	2.9	3.4	7.6
ENE	.4	.5	2.2	2.6	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	2.8	3.3	7.7
E	.6	.7	2.7	3.2	.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	3.6	4.2	7.5
ESE	.4	.5	2.5	3.0	.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	3.2	3.8	7.8
SE	.9	1.0	3.2	3.8	.3	.4	.2	.2	.0	.0	.0	.0	.0	.0	4.6	5.5	7.7
SSE	.6	.7	3.5	4.1	.4	.5	.2	.2	.1	.1	.0	.0	.0	.0	4.8	5.6	8.4
S	.7	.8	6.3	7.4	1.4	1.7	.8	.9	.2	.3	.0	.0	.0	.0	9.5	11.1	9.9
SSW	.4	.4	4.4	5.2	1.6	1.9	1.3	1.5	.6	.7	.1	.1	.0	.0	8.3	9.8	11.9
SW	.3	.4	3.0	3.6	1.4	1.7	1.3	1.5	.7	.8	.1	.1	.0	.0	6.9	8.1	12.8
WSW	.2	.2	2.1	2.4	1.0	1.2	1.0	1.2	.6	.7	.1	.1	.0	.0	5.1	6.0	13.3
W	.2	.3	2.6	3.1	1.3	1.5	1.2	1.4	.5	.6	.1	.1	.0	.0	6.0	7.0	12.8
WNW	.3	.3	2.5	3.0	1.0	1.2	.8	1.0	.4	.4	.1	.1	.0	.0	5.1	6.0	11.9
NW	.6	.7	2.9	3.4	.8	1.0	.7	.8	.2	.3	.0	.0	.0	.0	5.3	6.2	10.6
NNW	.5	.6	3.1	3.7	.8	.9	.5	.6	.2	.2	.0	.0	.0	.0	5.1	6.0	9.9
CALM	3.0	3.5													3.0	3.5	
TOTAL	10.5	12.4	49.6	58.3	12.1	14.2	8.7	10.2	3.6	4.2	.6	.7	.1	.1	85.1	100	9.9

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: CMH COLUMBUS, OH

PERIOD: 1948-1978

CLASS 1 / NIGHT

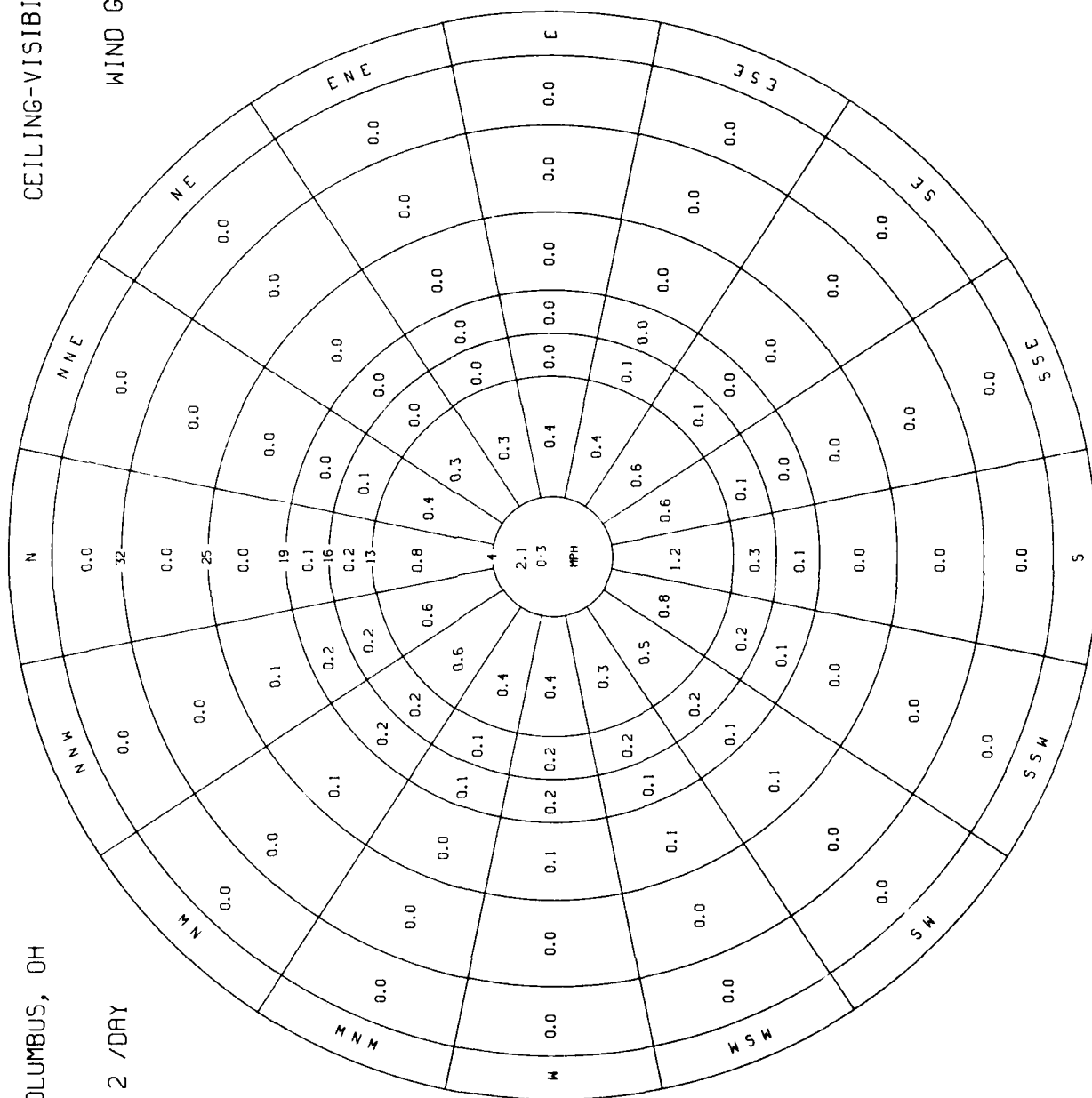
STATION NUMBER: 14821

NO. OBS.: 35270

D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	1.4	1.7	4.5	5.2	.3	.3	.1	.1	.0	.0	.0	.0	.0	.0	6.4	7.3	6.4
NNE	1.0	1.2	2.5	2.8	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	3.7	4.2	6.1
NE	1.1	1.2	2.3	2.7	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	3.5	4.0	6.0
ENE	1.0	1.1	2.0	2.2	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	3.1	3.6	6.1
E	1.6	1.9	3.4	3.9	.2	.2	.0	.1	.0	.0	.0	.0	.0	.0	5.2	6.0	5.9
ESE	1.1	1.3	4.2	4.9	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	5.6	6.4	6.5
SE	2.1	2.4	4.8	5.6	.3	.4	.1	.1	.0	.0	.0	.0	.0	.0	7.4	8.5	6.6
SSE	1.1	1.3	4.9	5.6	.3	.4	.2	.2	.0	.0	.0	.0	.0	.0	6.5	7.5	7.2
S	1.0	1.2	6.6	7.6	.6	.7	.3	.4	.1	.1	.0	.0	.0	.0	8.7	10.0	8.0
SSW	.3	.4	2.8	3.2	.6	.7	.3	.3	.1	.2	.0	.0	.0	.0	4.1	4.8	9.8
SW	.3	.3	1.8	2.0	.6	.6	.4	.4	.2	.2	.0	.0	.0	.0	3.1	3.6	10.8
WSW	.2	.2	1.6	1.8	.6	.7	.5	.6	.2	.3	.0	.0	.0	.0	3.1	3.6	12.1
W	.2	.3	2.7	3.1	.9	1.0	.7	.8	.3	.4	.1	.1	.0	.0	4.9	5.6	11.6
WNW	.3	.3	2.3	2.7	.8	.9	.5	.6	.2	.2	.0	.0	.0	.0	4.1	4.7	11.0
NW	.9	1.1	2.2	2.6	.5	.6	.3	.4	.1	.2	.0	.0	.0	.0	4.1	4.7	8.8
NNW	1.0	1.2	2.9	3.4	.3	.4	.2	.2	.1	.1	.0	.0	.0	.0	4.5	5.2	7.5
CALM	8.8	10.2													8.8	10.2	
TOTAL	23.5	27.1	51.5	59.2	6.4	7.4	3.8	4.4	1.5	1.7	.2	.2	.0	.0	86.9	100	7.1

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: CMH COLUMBUS, OH

PERIOD: 1948-1978

CLASS 2 / DAY

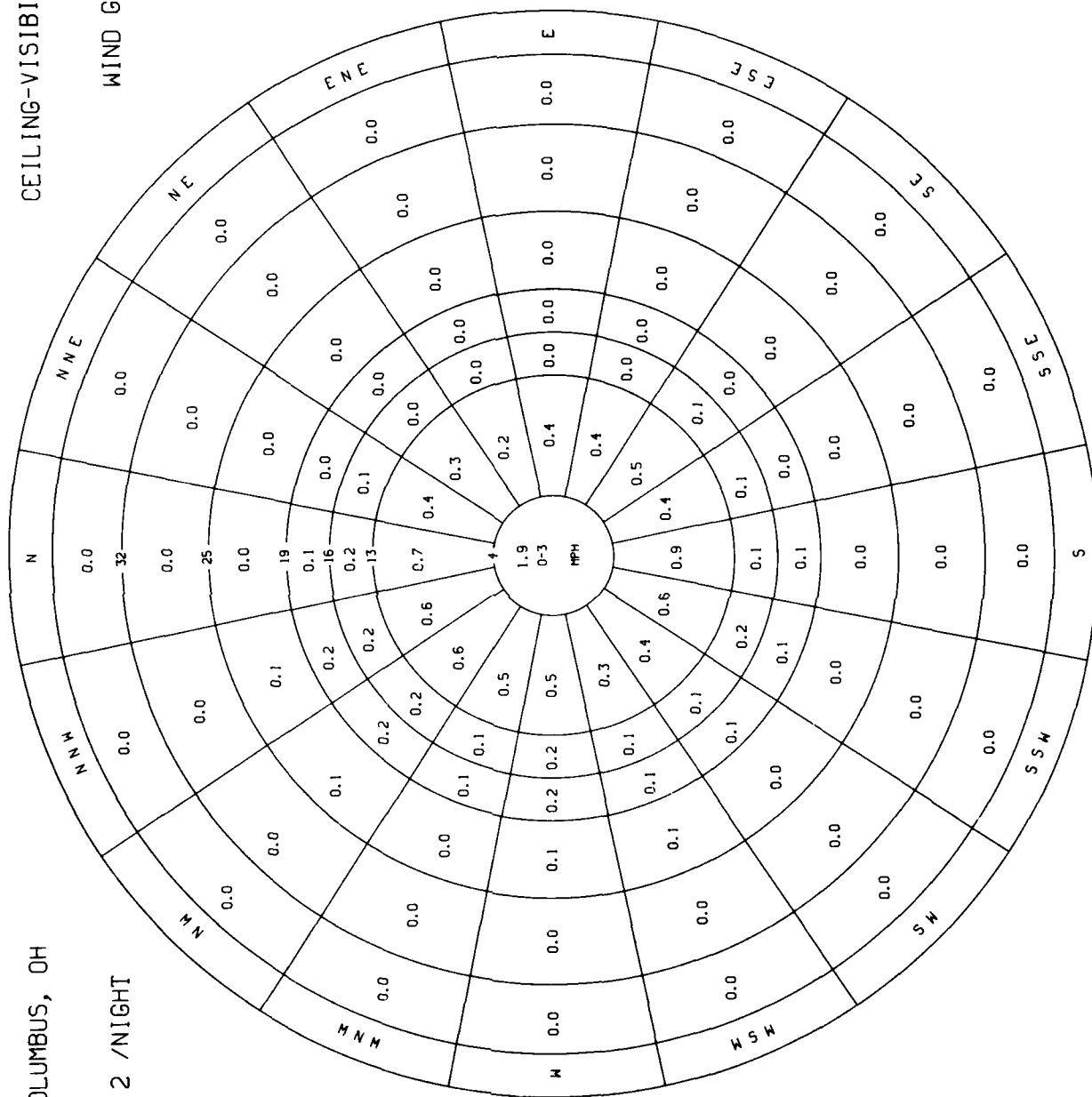
STATION NUMBER: 14821

NO. OBS.: 7453

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.1	.7	.8	5.3	.2	1.3	.1	.8	.0	.2	.0	.0	.0	.0	1.2	8.3	9.7
NNE	.1	.4	.4	2.4	.1	.4	.0	.1	.0	.0	.0	.0	.0	.0	.5	3.3	8.5
NE	.1	.5	.3	2.0	.0	.3	.0	.1	.0	.0	.0	.0	.0	.0	.4	2.9	8.1
ENE	.1	.4	.3	2.1	.0	.3	.0	.2	.0	.0	.0	.0	.0	.0	.5	3.0	8.3
E	.1	.8	.4	2.9	.0	.3	.0	.1	.0	.0	.0	.0	.0	.0	.6	4.1	7.2
ESE	.1	.4	.4	2.9	.1	.6	.0	.2	.0	.0	.0	.0	.0	.0	.6	4.1	8.6
SE	.2	1.2	.6	4.2	.1	.6	.0	.2	.0	.0	.0	.0	.0	.0	.9	6.2	7.9
SSE	.1	.9	.6	3.7	.1	.4	.0	.1	.0	.1	.0	.0	.0	.0	.8	5.2	7.9
S	.2	1.0	1.2	8.3	.3	1.9	.1	.9	.0	.2	.0	.0	.0	.0	1.8	12.3	9.4
SSW	.1	.5	.8	5.7	.2	1.1	.1	.8	.0	.3	.0	.1	.0	.0	1.3	8.4	10.4
SW	.1	.5	.5	3.4	.2	1.1	.1	.8	.1	.3	.0	.1	.0	.0	.9	6.2	11.2
WSW	.0	.3	.3	2.2	.2	1.1	.1	.9	.1	.4	.0	.1	.0	.0	.7	5.0	12.9
W	.0	.2	.4	2.6	.2	1.2	.2	1.1	.1	.5	.0	.1	.0	.0	.9	5.8	12.6
WNW	.0	.3	.4	2.6	.1	1.0	.1	1.0	.0	.3	.0	.1	.0	.0	.8	5.2	12.0
NW	.1	.6	.6	3.8	.2	1.1	.2	1.1	.1	.5	.0	.1	.0	.0	1.1	7.2	11.5
NNW	.1	.6	.6	4.2	.2	1.4	.2	1.2	.1	.4	.0	.1	.0	.0	1.2	7.8	11.2
CALM	.7	4.9													.7	4.9	
TOTAL	2.1	14.2	8.7	58.2	2.1	13.9	1.4	9.6	.5	3.4	.1	.7	.0	.1	14.9	100	9.5

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: CMH COLUMBUS, OH

PERIOD: 1948-1978

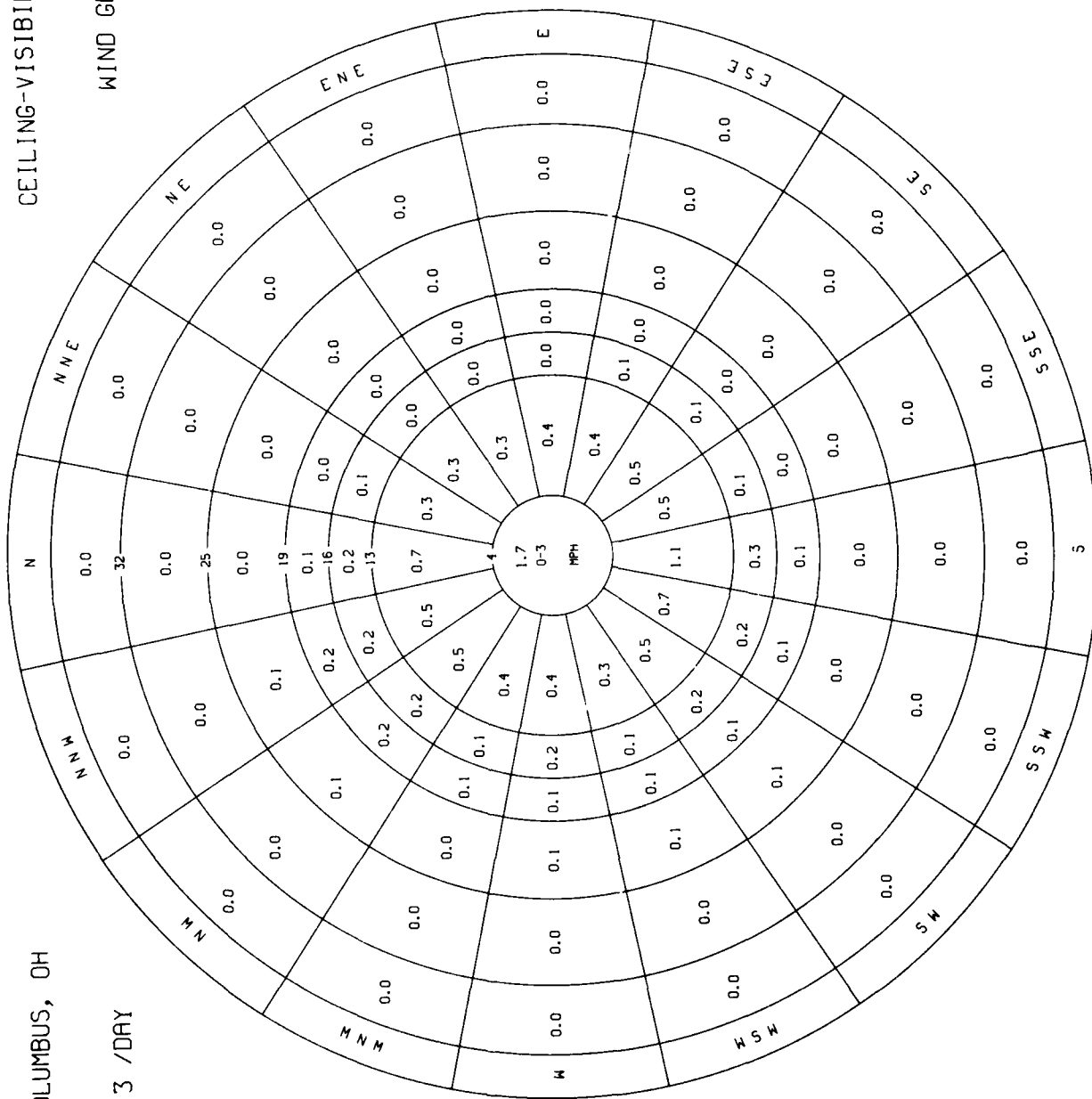
CLASS 2 / NIGHT

STATION NUMBER: 14821

NO. OBS.: 5310

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.1	.8	.7	5.5	.2	1.3	.1	.9	.0	.2	.0	.0	.0	.0	1.1	8.7	9.6
NNE	.1	.5	.4	2.8	.1	.5	.0	.2	.0	.0	.0	.0	.0	.0	.5	4.1	8.7
NE	.1	.5	.3	1.9	.0	.3	.0	.1	.0	.0	.0	.0	.0	.0	.4	2.9	7.9
ENE	.1	.5	.2	1.7	.0	.2	.0	.1	.0	.0	.0	.0	.0	.0	.3	2.5	7.3
E	.1	.9	.4	2.7	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.5	3.7	6.8
ESE	.0	.4	.4	2.8	.0	.2	.0	.1	.0	.0	.0	.0	.0	.0	.5	3.5	7.7
SE	.1	1.1	.5	3.8	.1	.6	.0	.3	.0	.0	.0	.0	.0	.0	.8	5.9	8.0
SSE	.1	.7	.4	3.3	.1	.5	.0	.3	.0	.1	.0	.0	.0	.0	.7	5.0	8.5
S	.1	1.1	.9	6.5	.1	.8	.1	.6	.0	.1	.0	.0	.0	.0	1.2	9.1	8.6
SSW	.1	.6	.6	4.7	.2	1.1	.1	.7	.0	.2	.0	.0	.0	.0	1.0	7.5	10.1
SW	.0	.3	.4	3.1	.1	1.1	.1	.7	.0	.3	.0	.1	.0	.0	.7	5.6	11.4
WSW	.0	.1	.3	2.5	.1	.8	.1	1.1	.1	.5	.0	.2	.0	.0	.7	5.2	13.3
W	.0	.3	.5	3.5	.2	.3	.2	1.3	.1	.4	.0	.1	.0	.0	.9	6.8	11.9
WNW	.0	.2	.5	3.5	.1	1.1	.1	1.1	.0	.3	.0	.0	.0	.0	.8	6.3	11.8
NW	.1	.7	.6	4.6	.2	1.6	.2	1.1	.1	.5	.0	.0	.0	.0	1.1	8.6	11.2
NNW	.1	.6	.6	4.9	.2	1.8	.2	1.4	.1	.5	.0	.0	.0	.0	1.2	9.3	11.3
CALM	.7	5.2													.7	5.2	
TOTAL	1.9	14.6	7.6	57.9	1.8	13.7	1.3	10.1	.4	3.2	.1	.5	.0	.1	13.1	100	9.5

CEILING-VISIBILITY WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: CMH COLUMBUS, OH

PERIOD: 1948-1978

CLASS 3 / DAY

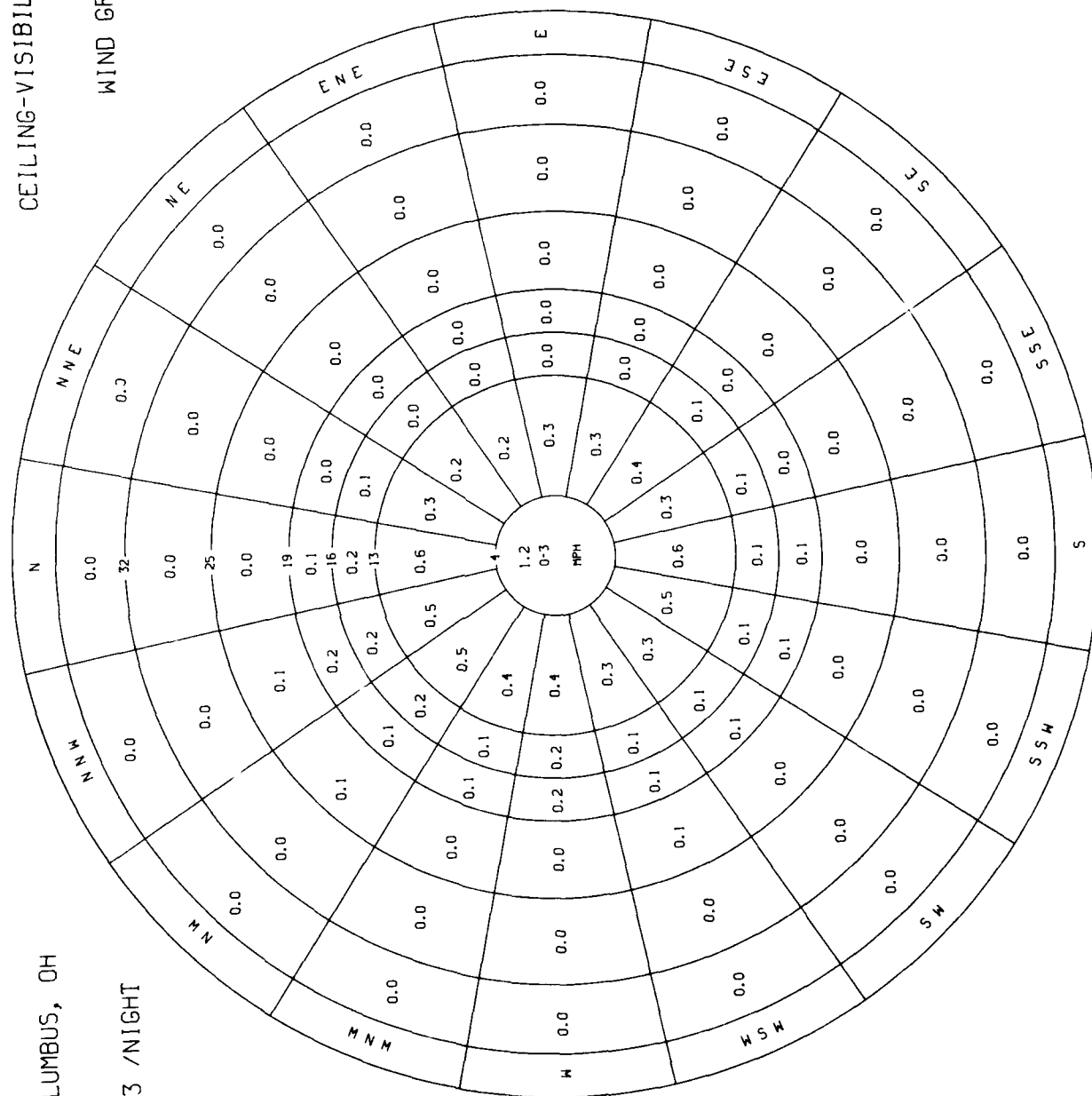
STATION NUMBER: 14821

NO. OBS.: 6598

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.1	.6	.7	5.3	.2	1.3	.1	.9	.0	.2	.0	.0	.0	.0	1.1	8.4	9.9
NNE	.0	.3	.3	2.3	.1	.4	.0	.1	.0	.0	.0	.0	.0	.0	.4	3.2	8.9
NE	.1	.5	.3	2.1	.0	.2	.0	.1	.0	.0	.0	.0	.0	.0	.4	3.0	8.0
ENE	.1	.4	.3	2.2	.0	.3	.0	.2	.0	.0	.0	.0	.0	.0	.4	3.2	8.4
E	.1	.7	.4	2.8	.0	.3	.0	.1	.0	.0	.0	.0	.0	.0	.5	4.0	7.3
ESE	.1	.4	.4	2.9	.1	.6	.0	.2	.0	.0	.0	.0	.0	.0	.5	4.1	8.7
SE	.1	1.1	.5	4.0	.1	.6	.0	.2	.0	.0	.0	.0	.0	.0	.8	6.0	8.0
SSE	.1	.8	.5	3.5	.1	.5	.0	.2	.0	.1	.0	.0	.0	.0	.7	5.1	8.1
S	.1	1.0	1.1	8.1	.3	2.0	.1	.9	.0	.2	.0	.0	.0	.0	1.6	12.4	9.5
SSW	.1	.4	.7	5.6	.2	1.2	.1	.9	.0	.3	.0	.0	.0	.0	1.1	8.4	10.6
SW	.0	.4	.5	3.4	.2	1.2	.1	.9	.1	.4	.0	.0	.0	.0	.8	6.4	11.5
WSW	.0	.3	.3	2.3	.1	1.1	.1	1.0	.1	.5	.0	.1	.0	.0	.7	5.3	12.7
W	.0	.2	.4	2.8	.2	1.3	.1	1.1	.1	.5	.0	.2	.0	.0	.8	6.2	12.8
WNW	.0	.3	.4	2.7	.1	1.1	.1	1.0	.0	.3	.0	.1	.0	.0	.7	5.5	12.0
NW	.1	.6	.5	3.8	.2	1.2	.2	1.2	.1	.5	.0	.1	.0	.0	1.0	7.4	11.7
NNW	.1	.5	.5	4.0	.2	1.4	.2	1.2	.1	.4	.0	.1	.0	.0	1.0	7.7	11.6
CALM	.5	4.0													.5	4.0	
TOTAL	1.7	12.6	7.7	58.1	1.9	14.7	1.3	10.2	.5	3.6	.1	.6	.0	.1	13.2	100	9.8

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: CMH COLUMBUS, OH

PERIOD: 1948-1978

CLASS 3 / NIGHT

STATION NUMBER: 14821

NO. OBS.: 4462

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED			
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C	D
N	.1	.7	.6	5.4	.2	1.5	.1	1.0	.0	.2	.0	.0	.0	.0	.0	1.0	8.8	10.0
NNE	.1	.5	.3	2.9	.1	.6	.0	.2	.0	.0	.0	.0	.0	.0	.0	.5	4.3	9.0
NE	.0	.4	.2	2.0	.0	.3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.3	3.0	8.2
ENE	.1	.6	.2	1.7	.0	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.3	2.6	7.3
E	.1	.7	.3	2.9	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	3.8	7.1
ESE	.0	.3	.3	3.0	.0	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.4	3.7	7.9
SE	.1	.7	.4	3.5	.1	.7	.0	.3	.0	.0	.0	.0	.0	.0	.0	.6	5.2	8.6
SSE	.0	.4	.3	2.8	.1	.5	.0	.3	.0	.1	.0	.0	.0	.0	.0	.5	4.2	9.2
S	.1	.8	.6	5.5	.1	.8	.1	.7	.0	.1	.0	.0	.0	.0	.0	.9	8.0	9.2
SSW	.1	.5	.5	4.5	.1	1.2	.1	.8	.0	.3	.0	.0	.0	.0	.0	.8	7.3	10.5
SW	.0	.2	.3	3.1	.1	1.3	.1	.8	.0	.3	.0	.1	.0	.0	.0	.6	5.8	11.8
WSW	.0	.1	.3	2.7	.1	1.0	.1	1.3	.1	.6	.0	.2	.0	.0	.0	.6	5.8	13.3
W	.0	.2	.4	3.9	.2	1.5	.2	1.5	.0	.4	.0	.1	.0	.0	.0	.8	7.7	12.0
WNW	.0	.2	.4	3.9	.1	1.3	.1	1.3	.0	.4	.0	.0	.0	.0	.0	.8	7.1	12.0
NW	.1	.5	.5	4.9	.2	1.9	.1	1.3	.1	.6	.0	.0	.0	.0	.0	1.0	9.2	11.6
NNW	.1	.5	.5	4.9	.2	2.0	.2	1.6	.1	.5	.0	.0	.0	.0	.0	1.1	9.7	11.6
CALM	.4	3.8														.4	3.8	
TOTAL	1.2	11.3	6.3	57.7	1.7	15.3	1.3	11.5	.4	3.6	.1	.5	.0	.0	.0	11.0	100	10.0

AD-A108 161

NATIONAL CLIMATIC CENTER ASHEVILLE NC

F/G 4/2

WIND - CEILING - VISIBILITY DATA AT SELECTED AIRPORTS. VOLUME I--ETC(U)
JUN 81 DOT-FA79WAI-057

JUN 81

DOT-FA79MAI-057

NL

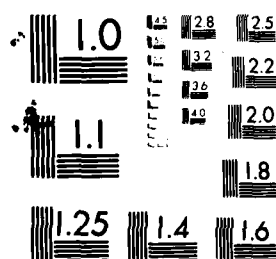
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3 OF 5

AD-A

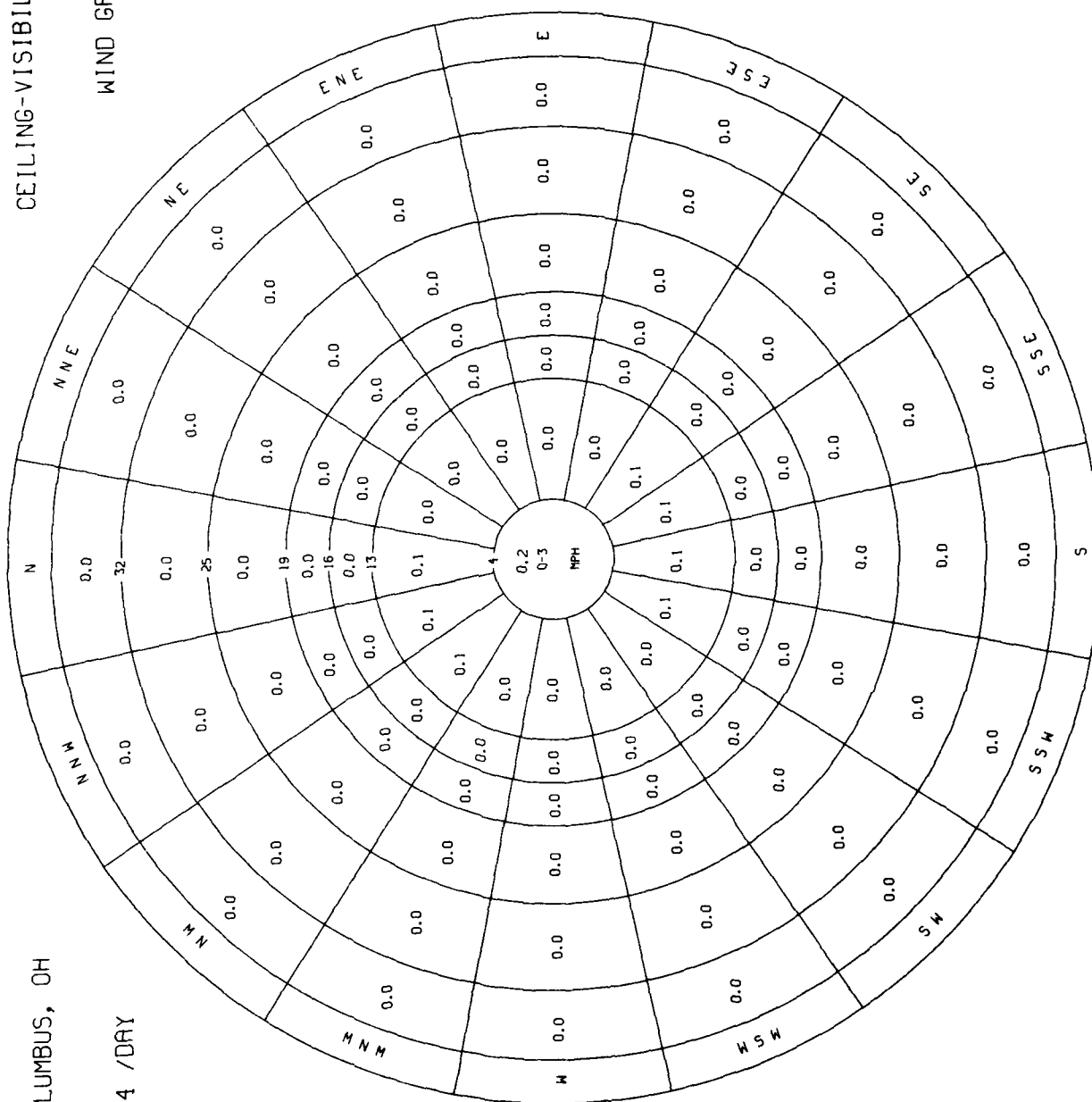
108161



MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: CMH COLUMBUS, OH

PERIOD: 1948-1978

CLASS 4 / DAY

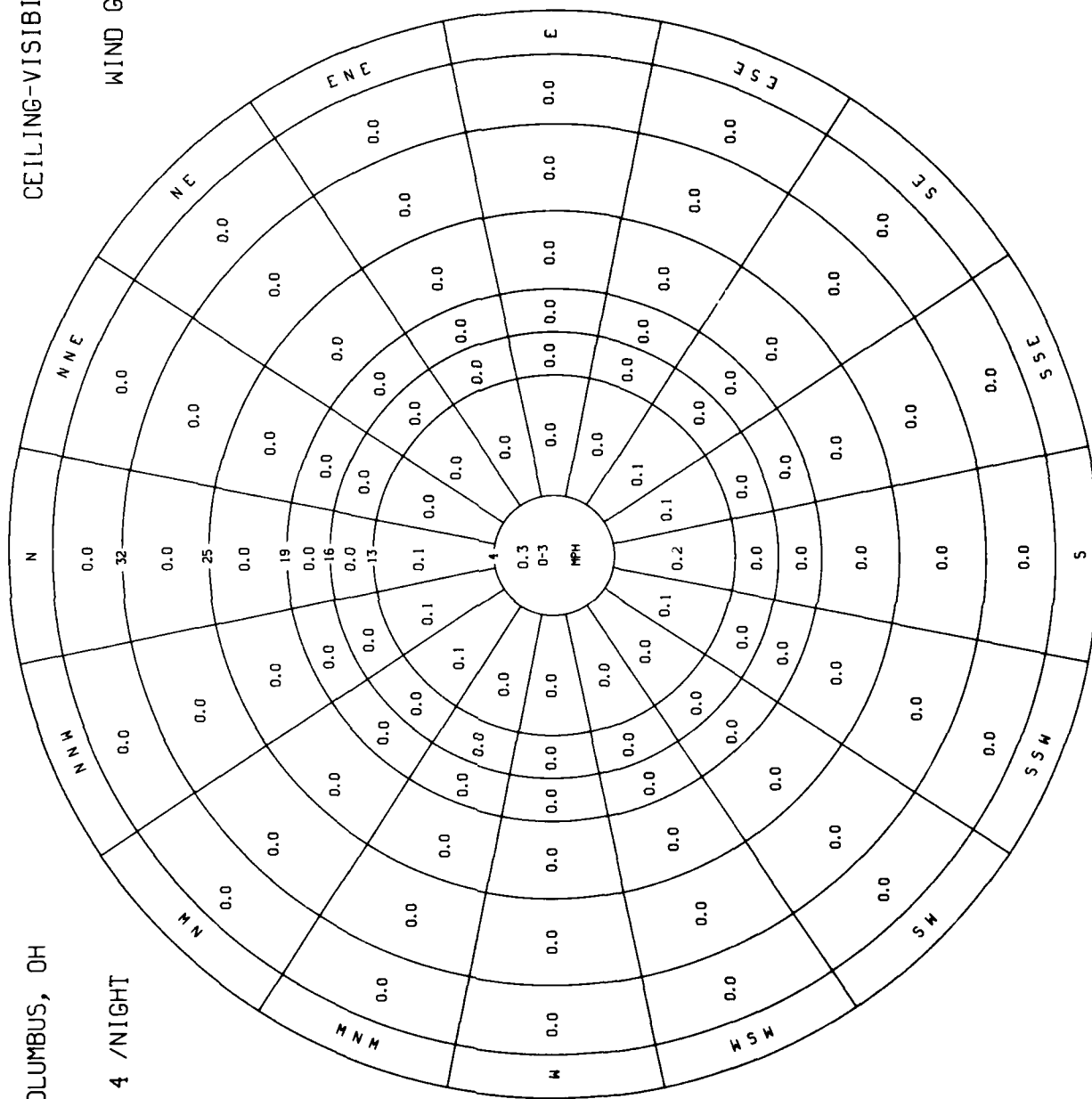
STATION NUMBER: 14821

NO. OBS.: 581

D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.9	.1	5.9	.0	1.4	.0	.3	.0	.3	.0	.0	.0	.0	.1	8.8	9.0
NNE	.0	1.0	.0	3.3	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.1	4.6	7.1
NE	.0	.5	.0	1.2	.0	.5	.0	.2	.0	.0	.0	.0	.0	.0	.0	2.4	9.1
ENE	.0	.5	.0	1.7	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4	7.1
E	.0	1.2	.0	4.1	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.1	5.7	6.9
ESE	.0	.5	.0	2.9	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	4.1	8.0
SE	.0	1.9	.1	5.7	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.1	8.4	7.8
SSE	.0	.9	.1	5.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.1	6.2	7.3
S	.0	.9	.1	8.4	.0	.7	.0	1.0	.0	.2	.0	.0	.0	.0	.1	11.2	8.9
SSW	.0	.7	.1	6.5	.0	1.2	.0	.2	.0	.0	.0	.0	.0	.0	.1	8.6	8.9
SW	.0	.5	.0	3.3	.0	.2	.0	.7	.0	.0	.0	.2	.0	.0	.1	4.8	9.5
WSW	.0	.0	.0	.9	.0	.5	.0	.3	.0	.3	.0	.2	.0	.0	.0	2.2	14.4
W	.0	.3	.0	2.1	.0	.2	.0	.7	.0	.3	.0	.0	.0	.0	.0	3.6	10.8
WNW	.0	.0	.0	.9	.0	.7	.0	.7	.0	.3	.0	.3	.0	.0	.0	2.9	15.8
NW	.0	.5	.1	4.6	.0	.9	.0	.3	.0	.9	.0	.2	.0	.0	.1	7.4	11.0
NNW	.0	.9	.1	6.2	.0	1.2	.0	.9	.0	.5	.0	.0	.0	.0	.1	9.6	9.3
CALM	.1	6.9													.1	6.9	
TOTAL	.2	18.1	.7	62.8	.1	9.1	.1	6.2	.0	2.9	.0	.9	.0	.0	1.2	100	8.4

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: CMH COLUMBUS, OH

PERIOD: 1948-1978

CLASS 4 / NIGHT

STATION NUMBER: 14821

NO. OBS.: 525

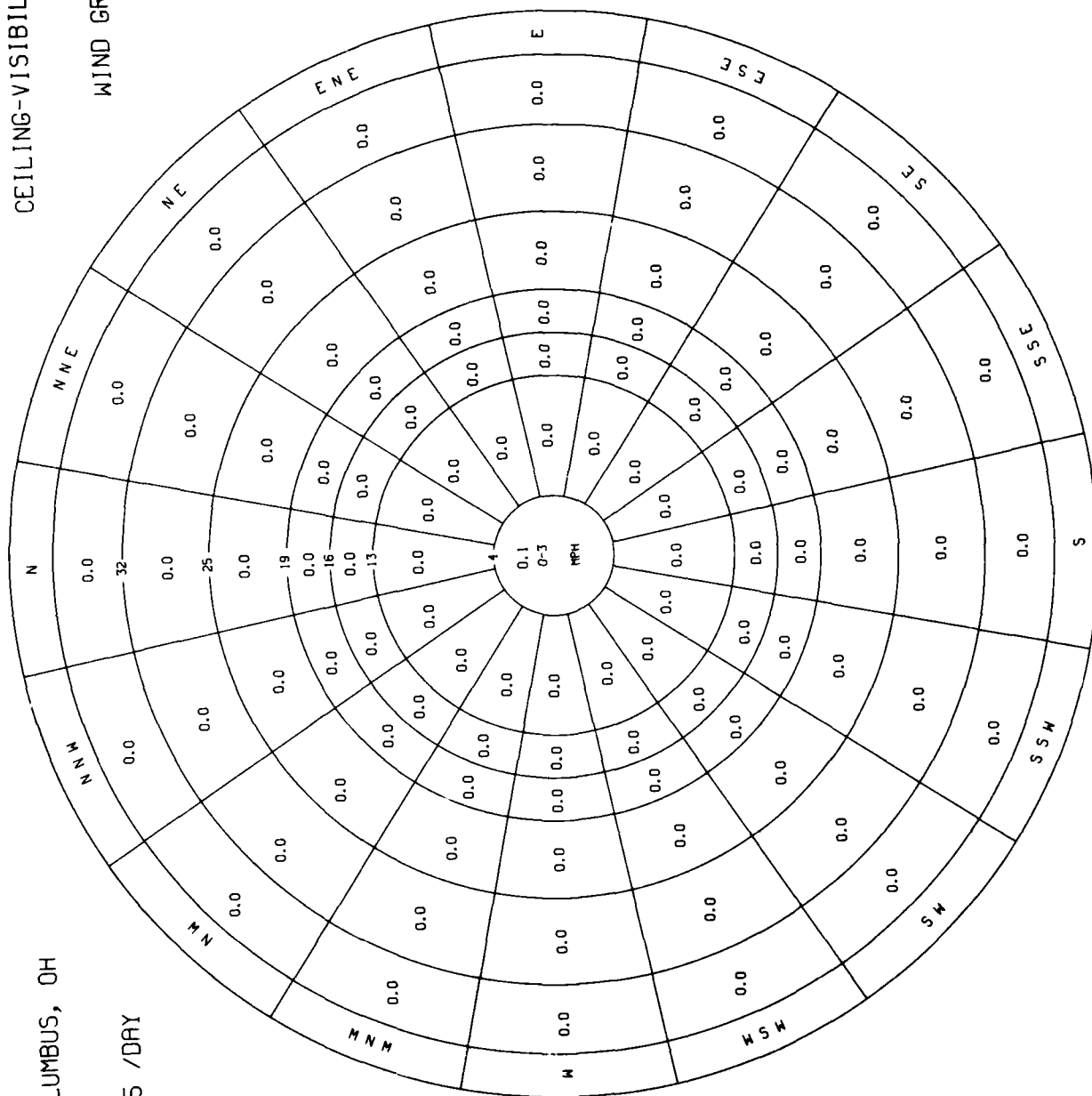
D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.0	1.3	.1	5.7	.0	.4	.0	.6	.0	.2	.0	.0	.0	.0	.1	8.2	8.2
NNE	.0	.6	.0	2.3	.0	.4	.0	.2	.0	.0	.0	.0	.0	.0	.0	3.4	8.1
NE	.0	.2	.0	2.1	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	8.7
ENE	.0	.2	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	7.1
E	.0	1.0	.0	1.7	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.9	6.5
ESE	.0	.6	.0	2.3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	6.9
SE	.0	2.5	.1	5.3	.0	.6	.0	.4	.0	.0	.0	.0	.0	.0	.1	8.8	7.3
SSE	.0	2.3	.1	6.1	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.1	9.1	7.3
S	.0	2.5	.2	11.8	.0	.8	.0	.4	.0	.0	.0	.0	.0	.0	.2	15.4	7.3
SSW	.0	1.0	.1	7.2	.0	1.1	.0	.2	.0	.0	.0	.0	.0	.0	.1	9.5	8.6
SW	.0	.4	.0	3.4	.0	.6	.0	.4	.0	.2	.0	.0	.0	.0	.1	5.0	9.4
WSW	.0	.0	.0	1.5	.0	.4	.0	.0	.0	.0	.0	.4	.0	.0	.0	2.3	12.0
W	.0	.6	.0	1.3	.0	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	2.7	11.7
WNW	.0	.4	.0	1.9	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	2.7	8.1
NW	.0	.8	.1	5.0	.0	.4	.0	.8	.0	.4	.0	.0	.0	.0	.1	7.2	9.4
NNW	.0	.8	.1	5.7	.0	1.3	.0	.6	.0	.2	.0	.0	.0	.0	.1	8.6	9.5
CALM	.1	6.1													.1	6.1	
TOTAL	3	21.0	.9	65.7	.1	7.6	.0	3.6	.0	1.3	.0	.8	.0	.0	1.3	100	7.8

CEILING-VISIBILITY

WIND GRAPH

CMH COLUMBUS, OH

CLASS 5 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: CMH COLUMBUS, OH

PERIOD: 1948-1978

CLASS 5 / DAY

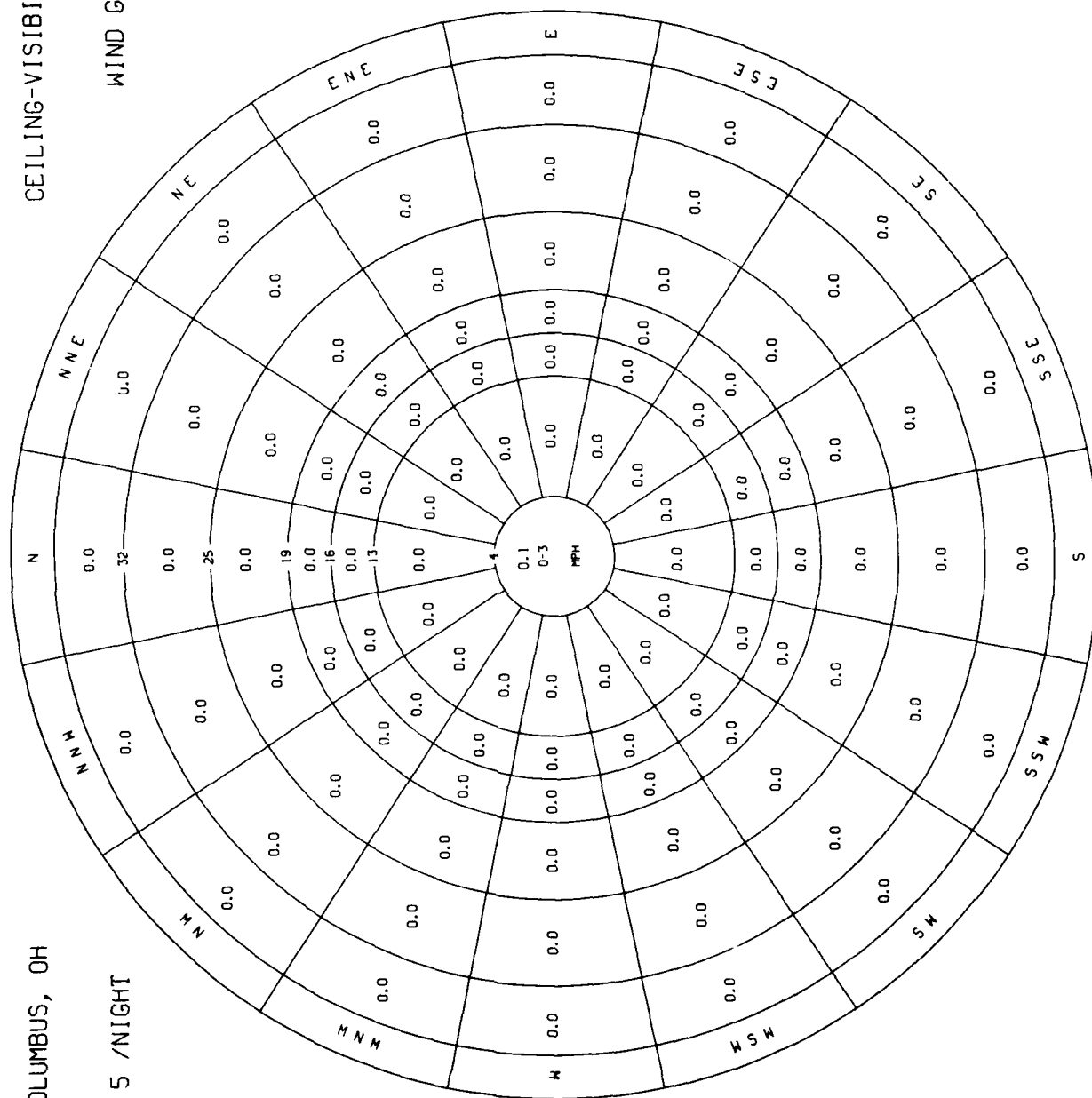
STATION NUMBER: 14821

NO. OBS.: 104

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.0	.0	.0	3.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.8	7.0
NNE	.0	2.9	.0	2.9	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	6.7	6.4
NE	.0	.0	.0	1.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.9	11.0
ENE	.0	.0	.0	1.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	9.0
E	.0	1.0	.0	1.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.9	7.3
ESE	.0	1.0	.0	4.8	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.7	6.7
SE	.0	1.9	.0	4.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.7	6.1
SSE	.0	.0	.0	4.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.8	6.8
S	.0	1.9	.0	12.5	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15.4	6.9
SSW	.0	3.8	.0	8.7	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	13.5	7.0
SW	.0	1.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.9	4.7
WSW	.0	.0	.0	1.9	.0	1.0	.0	.0	.0	.0	.0	1.0	.0	1.9	.0	5.8	21.0
W	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	3.0
WNW	.0	.0	.0	1.9	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	2.9	11.7
NW	.0	1.9	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.9	4.3
NNW	.0	.0	.0	3.8	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	4.8	8.6
CALM	.0	14.4													.0	14.4	
TOTAL	.1	30.8	.1	55.8	.0	6.7	.0	2.9	.0	.0	.0	1.9	.0	1.9	.2	100	6.9

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: CMH COLUMBUS, OH

PERIOD: 1948-1978

CLASS 5 / NIGHT

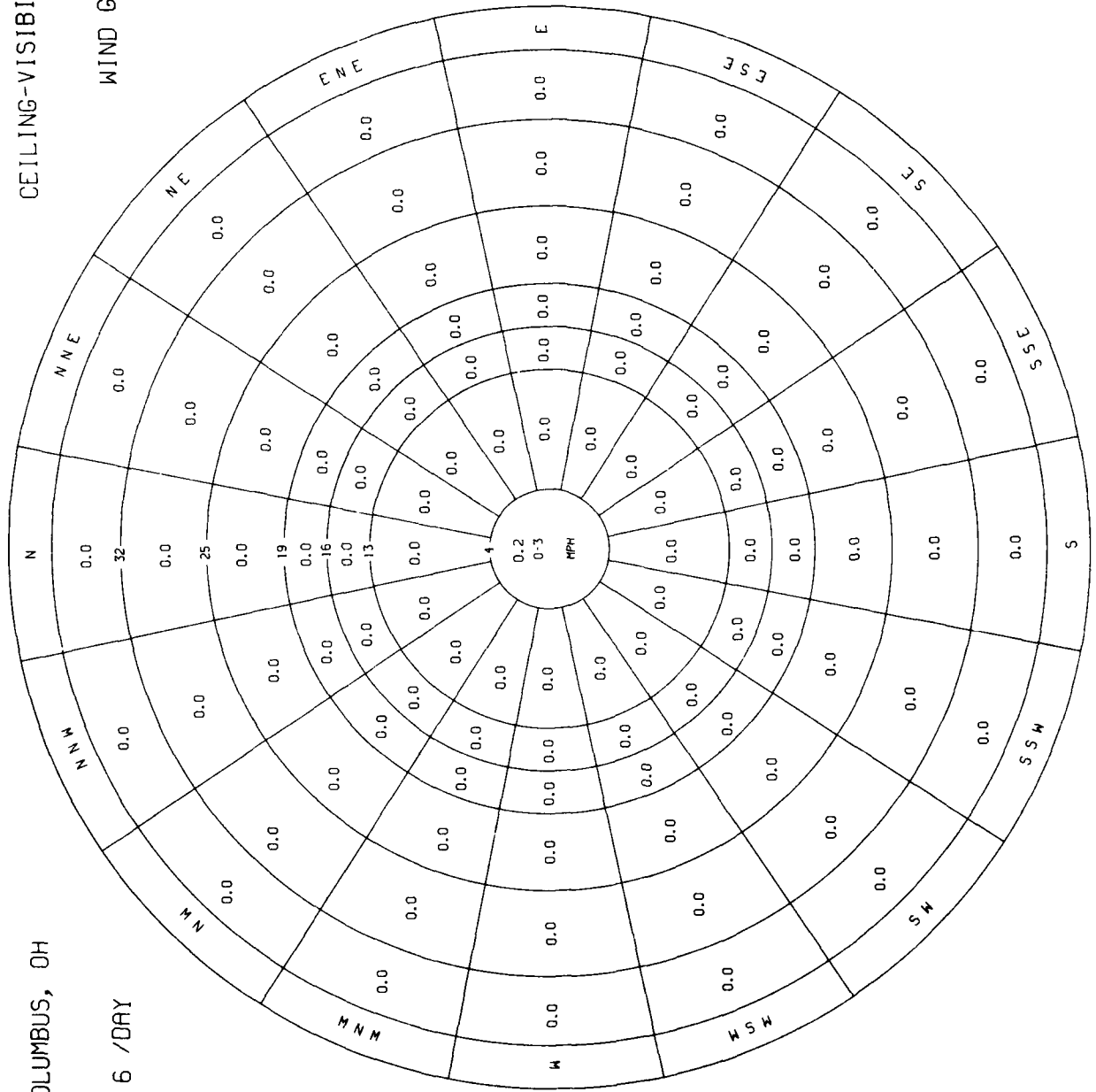
STATION NUMBER: 14821

NO. OBS.: 134

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.0	.0	5.2	.0	.7	.0	.7	.0	.0	.0	.0	.0	.0	6.7
NNE	.0	.7	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2
NE	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7
ENE	.0	.0	.0	1.5	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	2.2
E	.0	4.5	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.7
ESE	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5
SE	.0	3.7	.0	7.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.2
SSE	.0	2.2	.0	7.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.7
S	.0	3.7	.0	13.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17.2
SSW	.0	3.0	.0	8.2	.0	.7	.0	.7	.0	.0	.0	.0	.0	.0	12.7
SW	.0	2.2	.0	3.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	6.0
WSW	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2
W	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7
WNW	.0	.0	.0	.7	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	1.5
NW	.0	1.5	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2
NNW	.0	1.5	.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.5
CALM	.0	11.9													11.9
TOTAL	.1	35.8	.2	58.2	.0	2.2	.0	1.5	.0	.7	.0	.7	.0	.7	6.0

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: CMH COLUMBUS, OH

PERIOD: 1948-1978

CLASS 6 / DAY

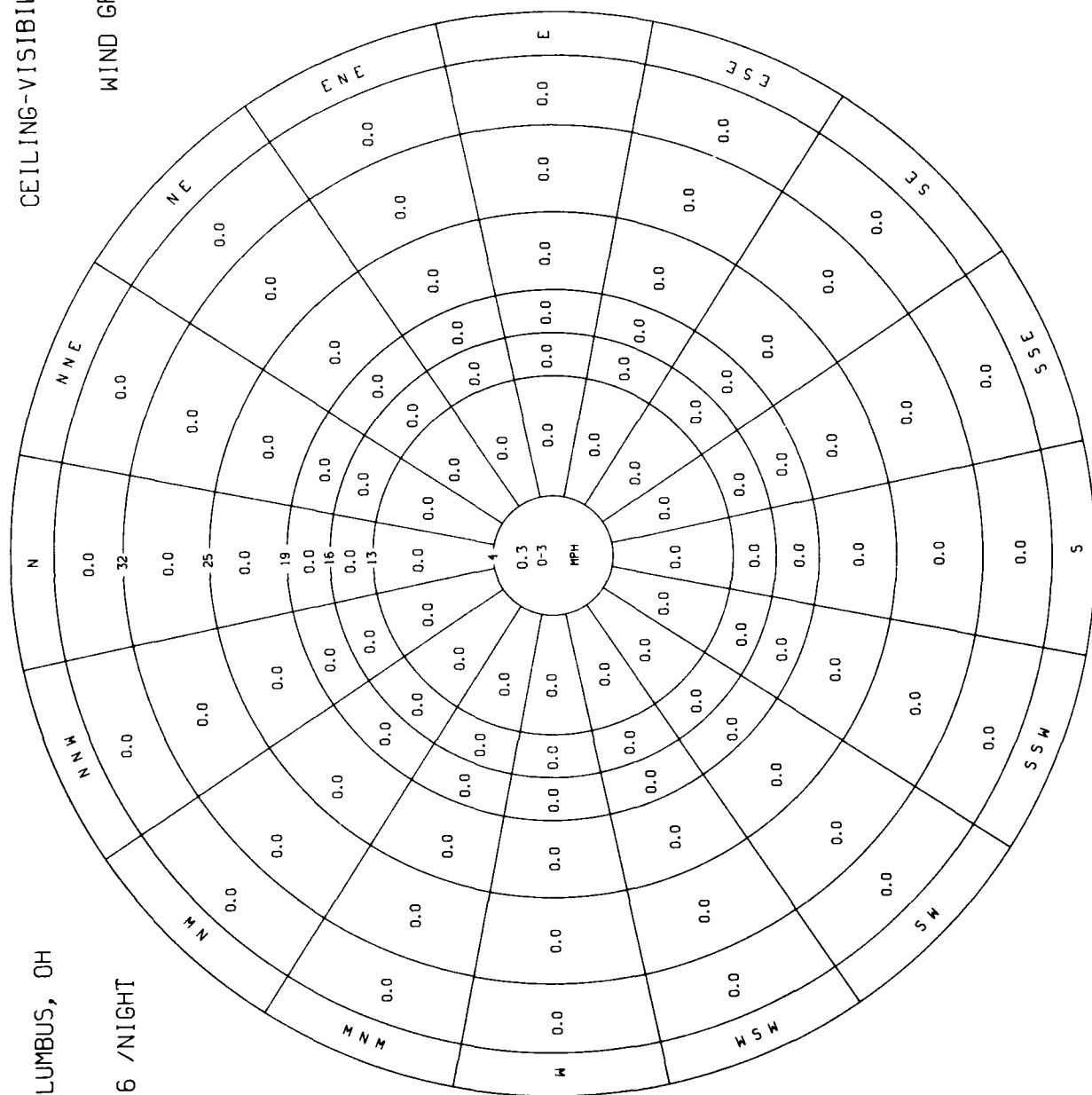
STATION NUMBER: 14821

NO. OBS.: 170

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	2.4	.0	3.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 5.9
NNE	.0	1.2	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.8
NE	.0	1.8	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.9
ENE	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.2
E	.0	.6	.0	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.5
ESE	.0	1.2	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.8
SE	.0	3.5	.0	4.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 7.6
SSE	.0	2.9	.0	5.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 8.2
S	.0	1.2	.0	11.2	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0 12.9
SSW	.0	1.8	.0	4.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 5.9
SW	.0	2.9	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 4.7
WSW	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .6
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .0
WNW	.0	1.8	.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 4.1
NW	.0	1.8	.0	2.4	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0 4.7
NNW	.0	3.5	.0	4.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 8.2
CALM	.1	25.9													.1 25.9
TOTAL	.2	54.1	.2	44.7	.0	.6	.0	.0	.0	.6	.0	.0	.0	.0	.3 100
															3.8

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: CMH COLUMBUS, OH

PERIOD: 1948-1978

CLASS 6 / NIGHT

STATION NUMBER: 14821

NO. OBS.: 189

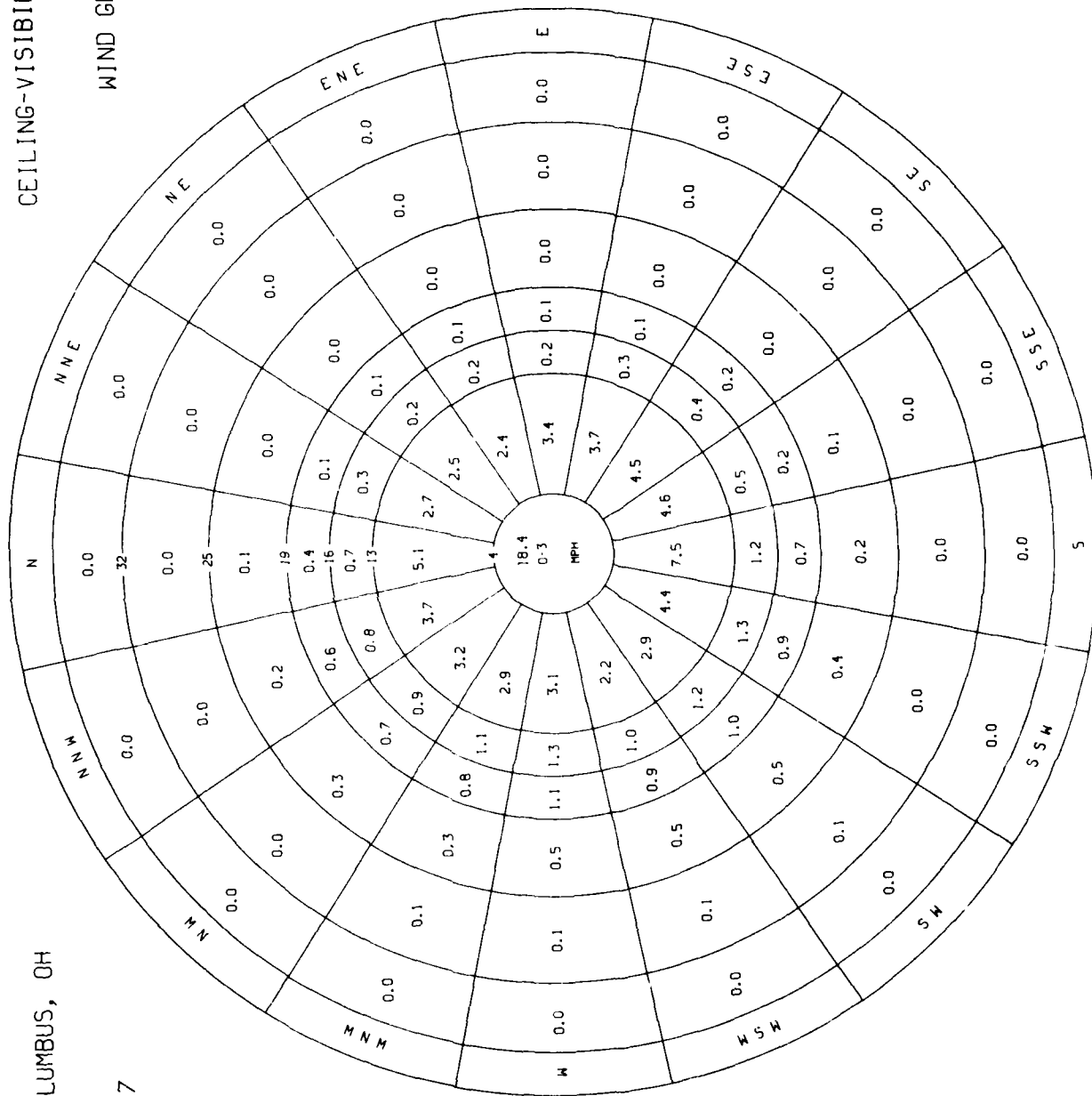
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	2.6	.0	6.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.0
NNE	.0	1.1	.0	3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.2
NE	.0	3.2	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7
ENE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
E	.0	1.6	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2
ESE	.0	1.1	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6
SE	.0	4.8	.0	4.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.0
SSE	.0	2.6	.0	5.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.9
S	.0	3.2	.0	10.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13.2
SSW	.0	1.1	.0	1.1	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	2.6
SW	.0	1.1	.0	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2
WSW	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5
W	.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1
WNW	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5
NW	.0	2.6	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2
NNW	.0	.5	.0	4.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.8
CALM	.2	32.3													32.3
TOTAL	.3	58.7	.2	40.7	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	100
															3.4

CEILING-VISIBILITY

WIND GRAPH

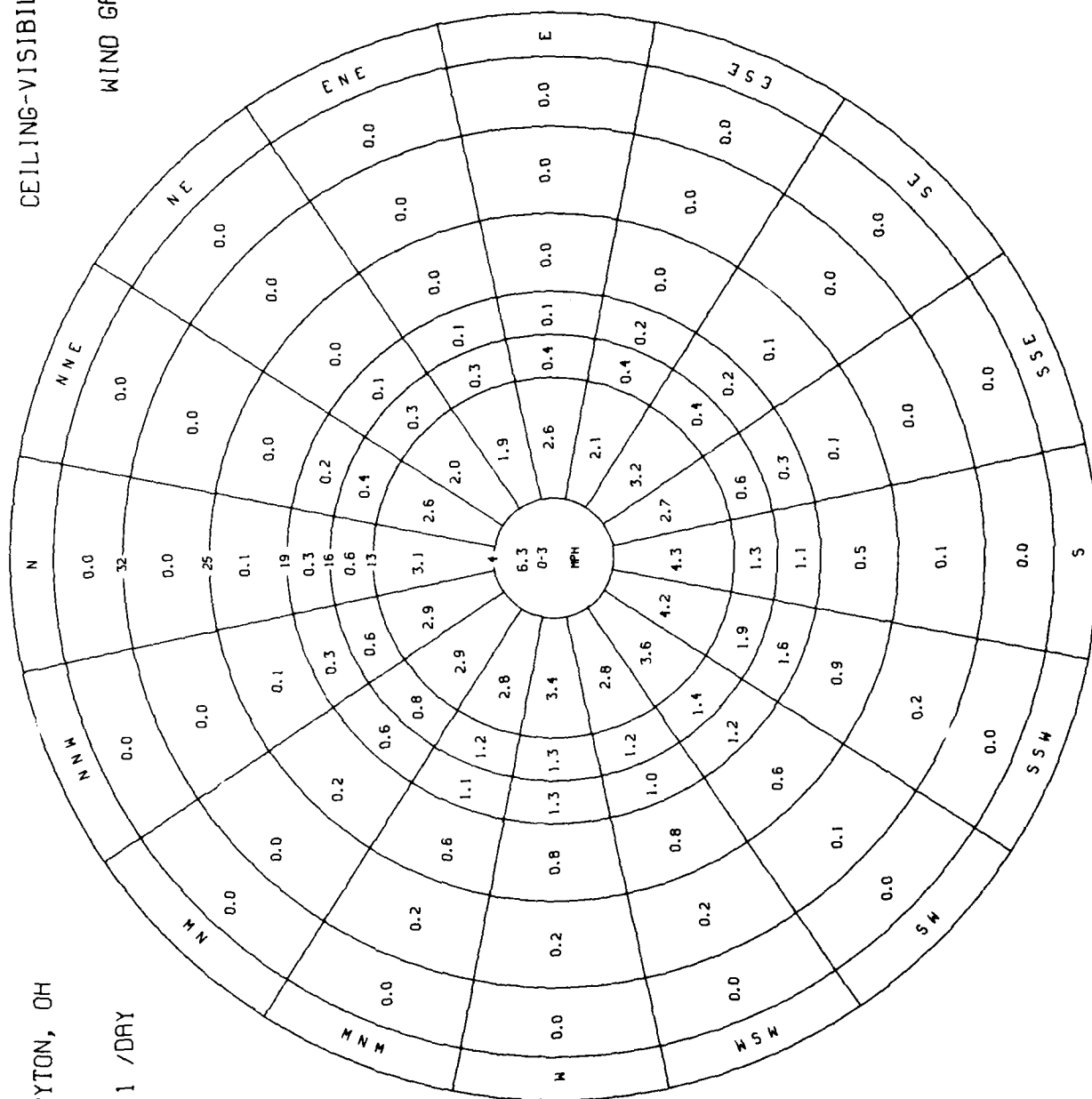
CMH COLUMBUS, OH

CLASS 7



CEILING-VISIBILITY WIND GRAPH

DAY DAYTON, OH
CLASS 1 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: DAY DAYTON, OH

CLASS 1 / DAY

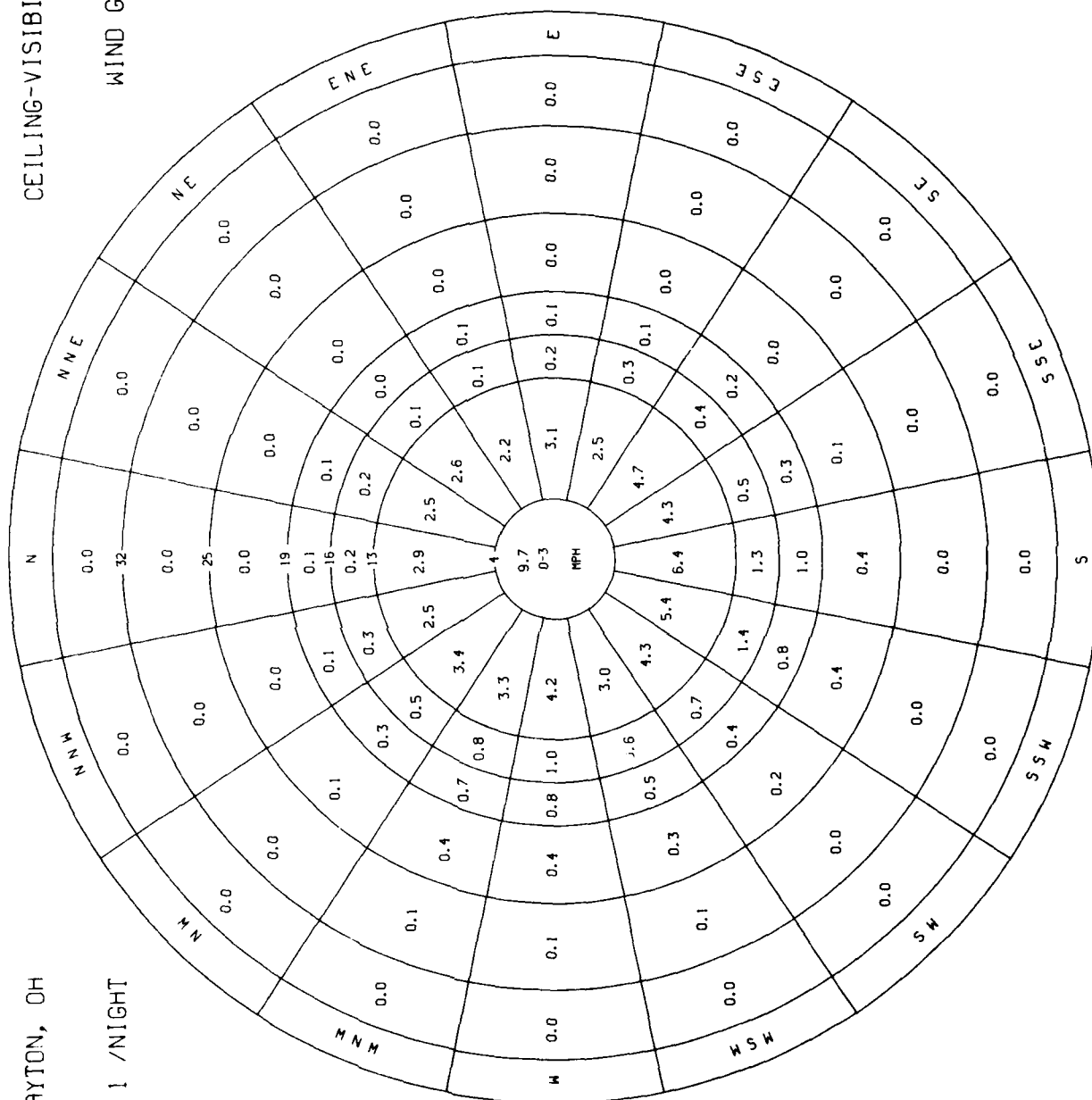
NO. OBS.: 40347

STATION NUMBER: 93815

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B		C	D
N	.5	.6	3.1	3.8	.6	.7	.3	.3	.1	.1	.0	.0	.0	.0	4.5	5.5	9.0
NNE	.4	.4	2.6	3.2	.4	.5	.2	.3	.0	.1	.0	.0	.0	.0	3.7	4.5	8.9
NE	.3	.4	2.0	2.4	.3	.3	.1	.1	.0	.0	.0	.0	.0	.0	2.7	3.2	8.3
ENE	.3	.4	1.9	2.3	.3	.4	.1	.1	.0	.0	.0	.0	.0	.0	2.6	3.2	8.6
E	.3	.4	2.6	3.1	.4	.5	.1	.2	.0	.0	.0	.0	.0	.0	3.4	4.2	8.6
ESE	.2	.3	2.1	2.6	.4	.5	.2	.2	.0	.0	.0	.0	.0	.0	2.9	3.5	9.1
SE	.3	.4	3.2	3.8	.4	.5	.2	.2	.1	.1	.0	.0	.0	.0	4.2	5.1	8.9
SSE	.3	.3	2.7	3.3	.6	.8	.3	.4	.1	.2	.0	.0	.0	.0	4.1	4.9	10.0
S	.4	.4	4.3	5.2	1.3	1.6	1.1	1.3	.5	.6	.1	.1	.0	.0	7.7	9.4	11.6
SSW	.2	.3	4.2	5.1	1.9	2.3	1.6	2.0	.9	1.0	.2	.2	.0	.0	9.0	11.0	12.9
SW	.3	.4	3.6	4.3	1.4	1.7	1.2	1.4	.6	.8	.1	.2	.0	.0	7.2	8.8	12.4
WSW	.2	.3	2.8	3.4	1.2	1.5	1.0	1.2	.8	.9	.2	.2	.0	.1	6.2	7.6	13.3
W	.3	.4	3.4	4.2	1.3	1.6	1.3	1.6	.8	1.0	.2	.2	.0	.1	7.3	8.9	12.8
WNW	.3	.3	2.8	3.4	1.2	1.4	1.1	1.3	.6	.8	.2	.3	.0	.0	6.1	7.5	13.0
NW	.4	.5	2.9	3.6	.8	1.0	.6	.8	.2	.3	.0	.0	.0	.0	5.0	6.1	10.7
NNW	.4	.4	2.9	3.5	.6	.7	.3	.4	.1	.1	.0	.0	.0	.0	4.2	5.1	9.4
CALM	1.3	1.5													1.3	1.5	
TOTAL	6.3	7.7	47.0	57.2	13.0	15.9	9.6	11.7	4.9	6.0	1.1	1.4	.2	.2	82.2	100	10.9

DAY DAYTON, OH

CLASS 1 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: DAY DAYTON, OH

CLASS 1 / NIGHT

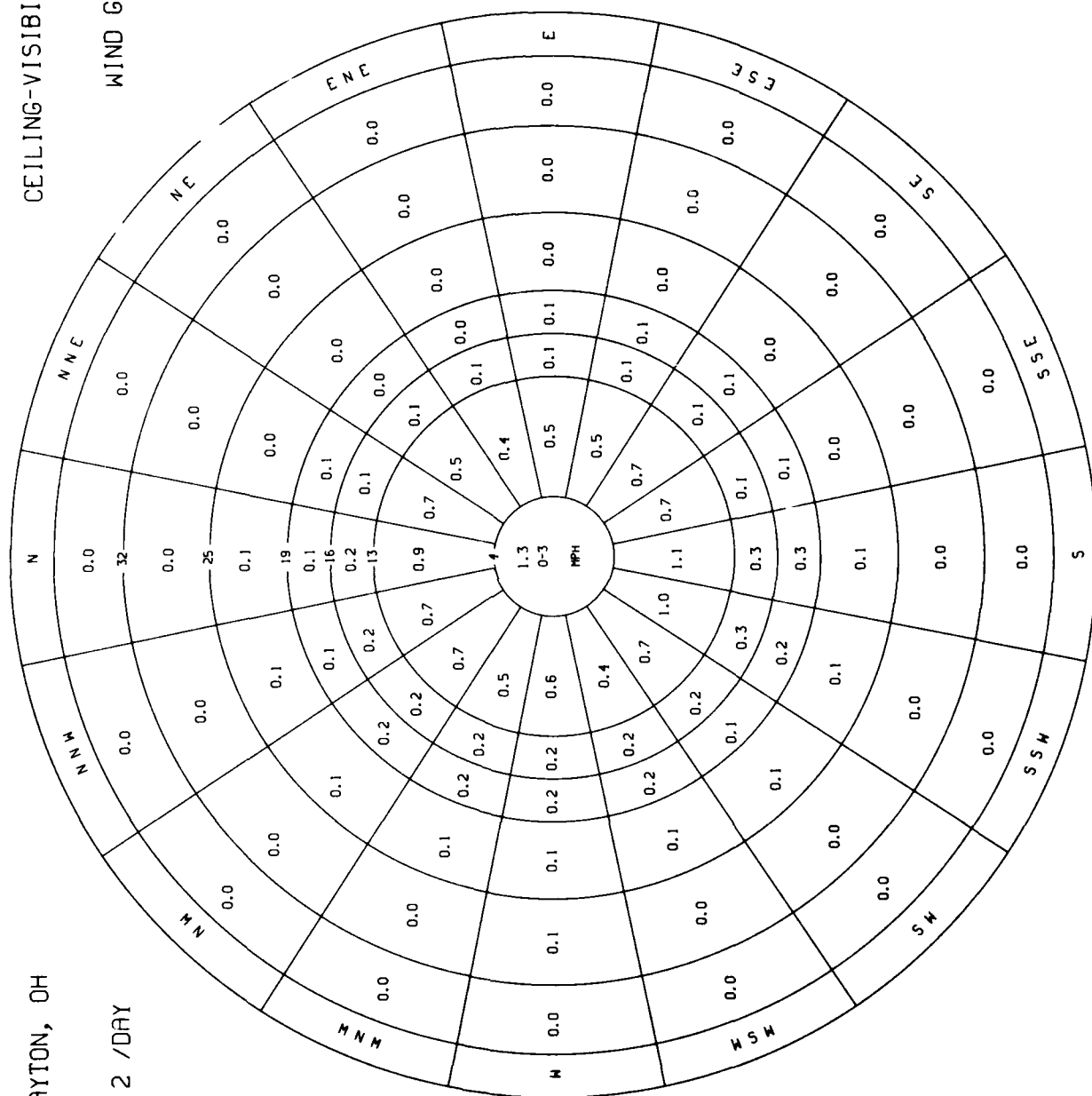
NO. OBS.: 35013

STATION NUMBER: 93815

D I R	SPEED GROUPS (MPH)																				AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL						
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D					
N	.6	.8	2.9	3.4	.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	3.9	4.6	7.4			
NNE	.5	.6	2.5	3.0	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	3.2	3.8	7.3			
NNE	.5	.6	2.6	3.0	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	3.8	7.1			
ENE	.4	.5	2.2	2.6	.1	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	2.8	3.3	7.4			
E	.4	.5	3.1	3.6	.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	3.8	4.5	7.7			
ESE	.3	.3	2.5	3.0	.3	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	3.2	3.8	8.4			
SE	.5	.6	4.7	5.5	.4	.5	.2	.2	.0	.1	.0	.0	.0	.0	.0	5.8	6.8	8.2			
SSE	.3	.4	4.3	5.1	.5	.6	.3	.3	.1	.1	.0	.0	.0	.0	.0	5.5	6.5	8.9			
S	.4	.5	6.4	7.6	1.3	1.6	1.0	1.2	.4	.4	.0	.1	.0	.0	.0	9.6	11.4	10.4			
SSW	.3	.4	5.4	6.4	1.4	1.7	.8	1.0	.4	.5	.0	.1	.0	.0	.0	8.4	10.0	10.8			
SW	.3	.4	4.3	5.1	.7	.8	.4	.5	.2	.2	.0	.0	.0	.0	.0	6.0	7.1	9.8			
WSW	.2	.3	3.0	3.6	.6	.7	.5	.6	.3	.3	.1	.1	.0	.0	.0	4.8	5.6	10.9			
W	.5	.6	4.2	5.0	1.0	1.1	.8	.9	.4	.4	.1	.2	.0	.0	.0	7.0	8.3	10.6			
WNW	.3	.4	3.3	3.9	.8	1.0	.7	.8	.4	.5	.1	.1	.0	.0	.0	5.7	6.7	11.2			
NW	.6	.7	3.4	4.1	.5	.6	.3	.4	.1	.1	.0	.0	.0	.0	.0	5.0	5.9	8.7			
NNW	.5	.6	2.5	3.0	.3	.3	.1	.2	.0	.1	.0	.0	.0	.0	.0	3.5	4.1	8.0			
CALM	3.0	3.5														3.0	3.5				
TOTAL	9.7	11.5	57.4	67.9	8.7	10.3	5.7	6.7	2.4	2.9	.5	.6	.1	.1	.1	84.5	100	9.0			

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DAY DAYTON, OH

PERIOD: 1948-1978

CLASS 2 / DAY

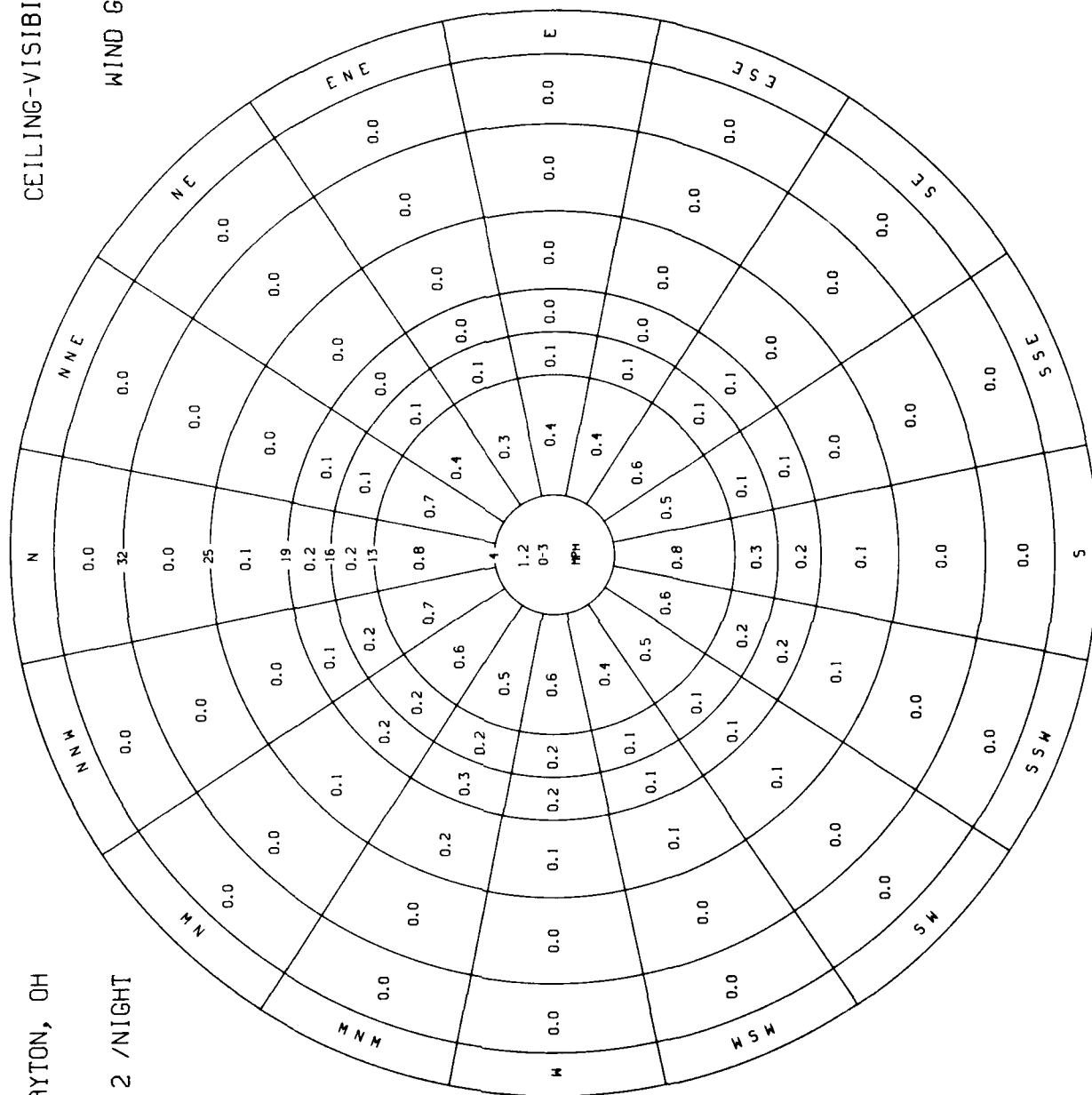
STATION NUMBER: 93815

NO. OBS.: 8756

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL			
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C	D
N	.1	.5	.9	5.0	.2	1.2	.1	.7	.1	.4	.0	.0	.0	.0	.0	1.4	7.8	10.4
NNE	.1	.3	.7	3.7	.1	.7	.1	.4	.0	.1	.0	.0	.0	.0	.0	.9	5.2	9.5
NE	.1	.3	.5	2.6	.1	.3	.0	.2	.0	.1	.0	.0	.0	.0	.0	.6	3.5	8.9
ENE	.0	.3	.4	2.3	.1	.5	.0	.1	.0	.1	.0	.0	.0	.0	.0	.6	3.1	9.0
E	.1	.3	.5	3.0	.1	.6	.1	.3	.0	.1	.0	.0	.0	.0	.0	.8	4.3	9.5
ESE	.0	.2	.5	3.0	.1	.6	.1	.4	.0	.1	.0	.0	.0	.0	.0	.8	4.4	10.1
SE	.1	.4	.7	4.1	.1	.8	.1	.4	.0	.1	.0	.0	.0	.0	.0	1.0	5.8	9.7
SSE	.0	.3	.7	3.9	.1	.7	.1	.6	.0	.2	.0	.0	.0	.0	.0	1.0	5.7	10.1
S	.1	.4	1.1	6.3	.3	1.7	.3	1.6	.1	.8	.0	.1	.0	.0	.0	1.9	10.9	11.6
SSW	.0	.3	1.0	5.6	.3	1.7	.2	1.4	.1	.7	.0	.0	.0	.0	.0	1.7	9.7	11.7
SW	.1	.3	.7	3.7	.2	1.1	.1	.8	.1	.5	.0	.2	.0	.1	.1	1.2	6.7	11.8
WSW	.0	.3	.4	2.3	.2	1.0	.2	.9	.1	.8	.0	.2	.0	.1	1.0	5.4	13.2	
W	.0	.3	.6	3.3	.2	1.1	.2	1.2	.1	.8	.1	.3	.0	.0	1.2	7.0	13.0	
WNW	.0	.2	.5	2.7	.2	1.0	.2	1.1	.1	.6	.0	.2	.0	.0	1.0	5.8	13.1	
NW	.1	.5	.7	3.7	.2	.9	.2	.9	.1	.5	.0	.1	.0	.0	1.2	6.5	11.2	
NNW	.1	.3	.7	3.9	.2	.9	.1	.7	.1	.3	.0	.1	.0	.0	1.1	6.2	10.7	
CALM	.3	1.9													.3	1.9		
TOTAL	1.3	7.1	10.5	59.1	2.6	14.7	2.0	11.5	1.1	6.0	.2	1.3	.1	.3	17.8	100		10.8

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DAY DAYTON, OH

PERIOD: 1948-1978

CLASS 2 / NIGHT

STATION NUMBER: 93815

NO. OBS.: 6435

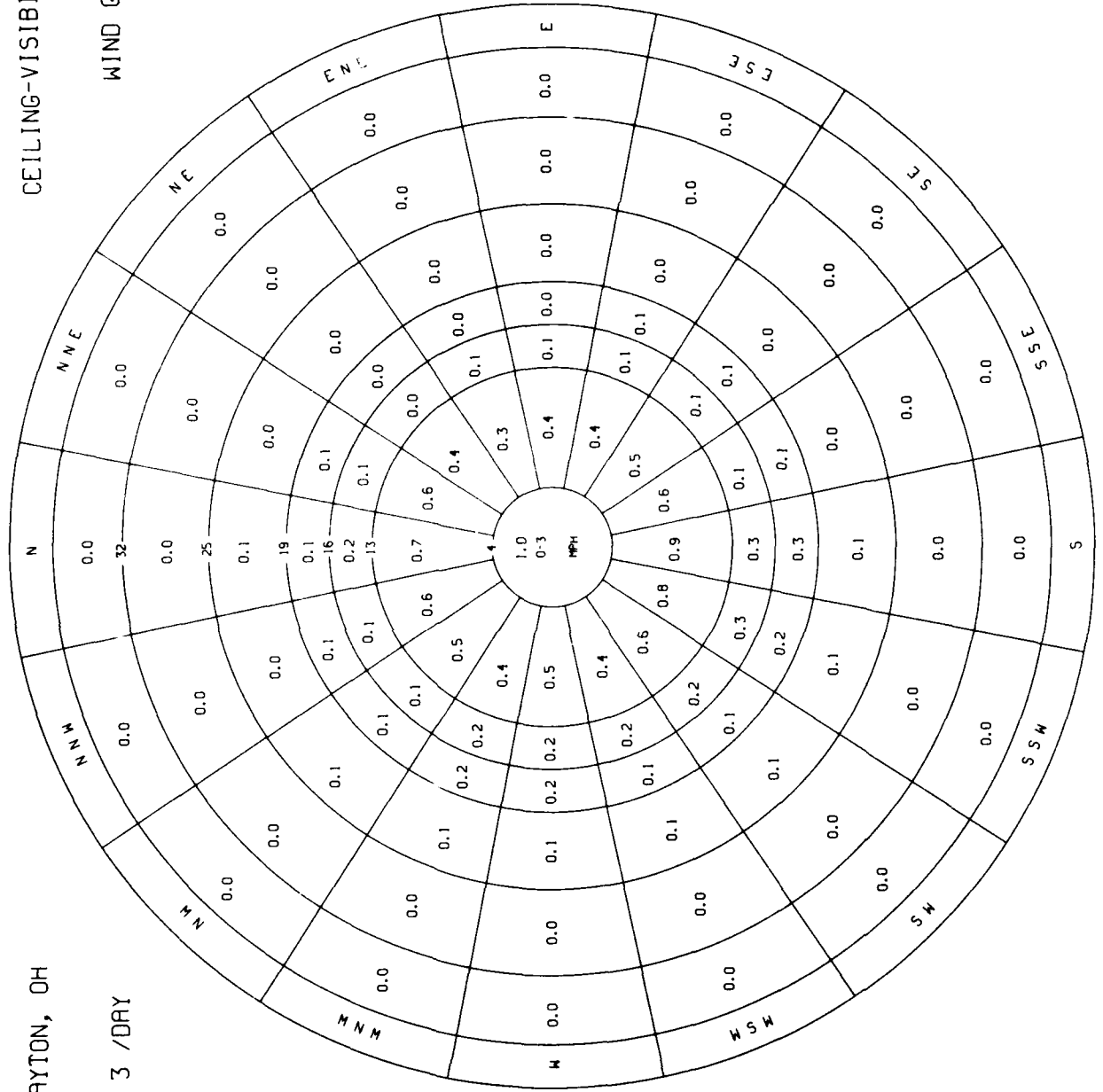
D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.1	.5	.8	5.2	.2	1.4	.2	1.2	.1	.4	.0	.0	.0	.0	1.3	8.6	10.7
NNE	.1	.4	.7	4.3	.1	.9	.1	.7	.0	.2	.0	.0	.0	.0	1.0	6.4	9.9
NE	.1	.5	.4	2.6	.1	.4	.0	.1	.0	.1	.0	.0	.0	.0	.6	3.7	8.4
ENE	.0	.2	.3	2.0	.1	.4	.0	.2	.0	.0	.0	.0	.0	.0	.4	2.9	9.1
E	.1	.4	.4	2.8	.1	.6	.0	.3	.0	.1	.0	.0	.0	.0	.6	4.1	9.4
ESE	.0	.2	.4	2.6	.1	.4	.0	.2	.0	.0	.0	.0	.0	.0	.5	3.5	9.5
SE	.1	.5	.6	3.9	.1	.8	.1	.3	.0	.1	.0	.0	.0	.0	.9	5.7	9.3
SSE	.0	.3	.5	3.0	.1	.7	.1	.5	.0	.3	.0	.0	.0	.0	.7	4.7	10.4
S	.1	.4	.8	5.2	.3	1.7	.2	1.4	.1	.9	.0	.1	.0	.0	1.5	9.7	11.8
SSW	.1	.3	.6	4.1	.2	1.6	.2	1.3	.1	.7	.0	.1	.0	.0	1.3	8.1	12.2
SW	.0	.3	.5	3.5	.1	.8	.1	.6	.1	.4	.0	.1	.0	.0	.9	5.7	11.2
WSW	.0	.2	.4	2.7	.1	.9	.1	.9	.1	.6	.0	.2	.0	.1	.9	5.5	12.9
W	.1	.3	.6	3.6	.2	1.1	.2	1.1	.1	.6	.0	.2	.0	.0	1.1	6.9	12.3
WNW	.1	.3	.5	3.2	.2	1.6	.3	1.6	.2	1.0	.0	.3	.0	.1	1.3	8.1	13.6
NW	.1	.5	.6	4.0	.2	1.0	.2	1.1	.1	.4	.0	.1	.0	.0	1.1	7.1	11.2
NNW	.1	.4	.7	4.4	.2	1.2	.1	.7	.0	.3	.0	.0	.0	.0	1.1	7.0	10.4
CALM	.3	2.2													.3	2.2	
TOTAL	1.2	8.0	8.9	57.1	2.4	15.2	1.9	12.2	.9	5.9	.2	1.2	.0	.2	15.5	100	10.9

CEILING-VISIBILITY

WIND GRAPH

DAY DAYTON, OH

CLASS 3 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DAY DAYTON, OH

PERIOD: 1948-1978

CLASS 3 / DAY

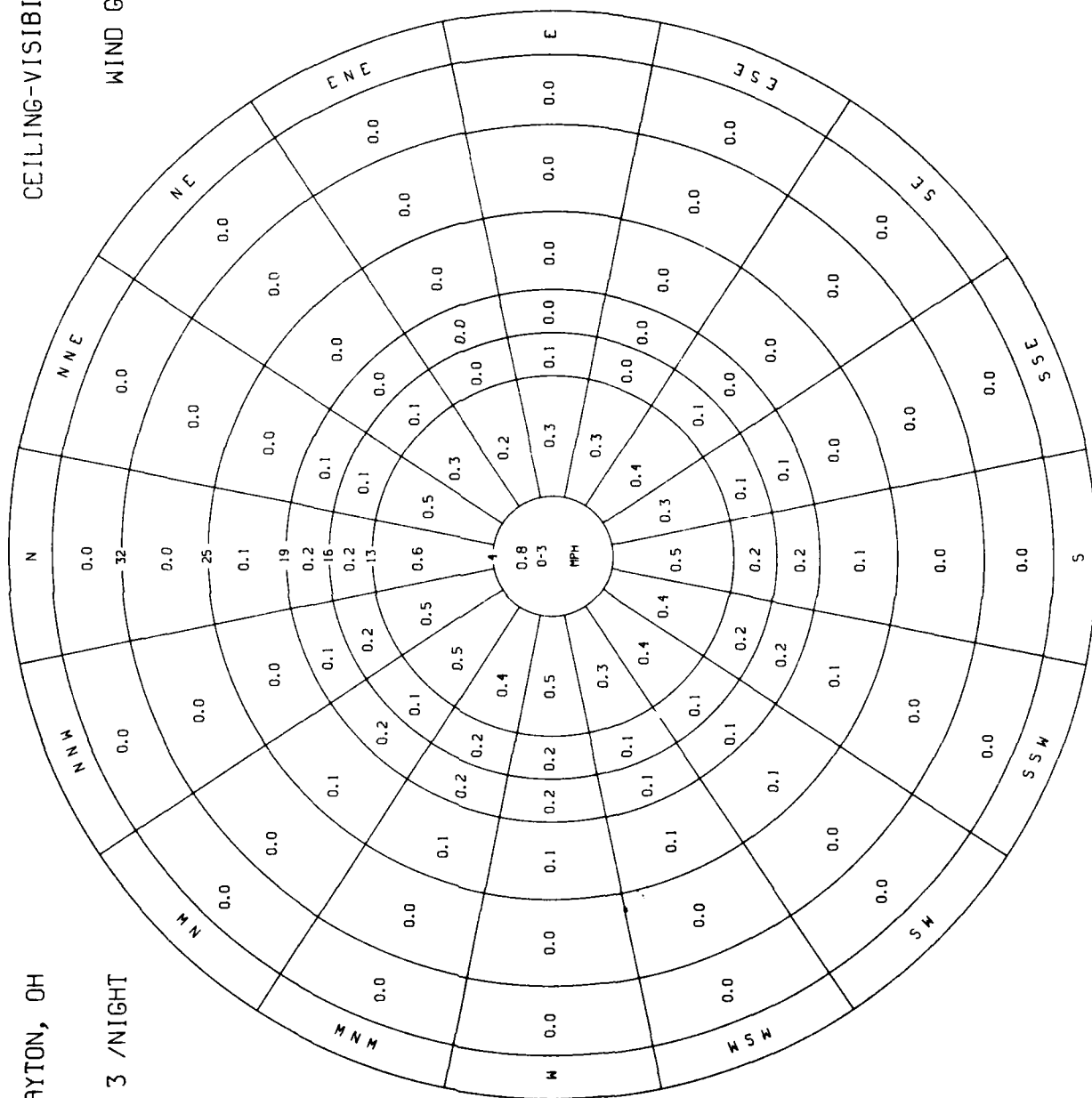
STATION NUMBER: 93815

NO. OBS.: 7431

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
																C	D
N	.1	.5	.7	4.7	.2	1.2	.1	.6	.1	.4	.0	.0	.0	.0	1.1	7.4	10.4
NNE	.0	.3	.6	3.7	.1	.7	.1	.4	.0	.1	.0	.0	.0	.0	.8	5.1	9.8
NE	.0	.3	.4	2.5	.0	.3	.0	.2	.0	.1	.0	.0	.0	.0	.5	3.3	8.9
ENE	.0	.2	.3	2.1	.1	.4	.0	.1	.0	.1	.0	.0	.0	.0	.4	2.9	9.1
E	.0	.3	.4	2.9	.1	.7	.0	.3	.0	.1	.0	.0	.0	.0	.6	4.2	9.8
ESE	.0	.2	.4	2.7	.1	.5	.1	.5	.0	.2	.0	.0	.0	.0	.6	3.9	10.3
SE	.1	.4	.5	3.5	.1	.7	.1	.4	.0	.1	.0	.0	.0	.0	.8	5.2	9.9
SSE	.0	.3	.6	3.7	.1	.7	.1	.6	.0	.2	.0	.0	.0	.0	.7	5.5	10.3
S	.1	.4	.9	6.1	.3	1.7	.3	1.7	.1	.9	.0	.1	.0	.0	1.7	10.9	11.9
SSW	.0	.2	.8	5.6	.3	1.8	.2	1.4	.1	.8	.0	.0	.0	.0	1.5	9.9	11.9
SW	.1	.3	.6	3.9	.2	1.3	.1	.9	.1	.5	.0	.2	.0	.1	1.1	7.1	12.0
WSW	.0	.2	.4	2.4	.2	1.1	.1	1.0	.1	.9	.0	.2	.0	.1	.9	5.8	13.4
W	.0	.2	.5	3.5	.2	1.3	.2	1.4	.1	.9	.0	.3	.0	.1	1.2	7.6	13.3
WNW	.0	.2	.4	2.9	.2	1.2	.2	1.2	.1	.6	.0	.2	.0	.0	1.0	6.4	13.2
NW	.1	.6	.5	3.6	.1	.9	.1	.9	.1	.5	.0	.1	.0	.0	1.0	6.5	11.4
NNW	.0	.3	.6	3.8	.1	1.0	.1	.7	.0	.3	.0	.1	.0	.0	.9	6.2	10.9
CALM	.3	1.9													.3	1.9	
TOTAL	1.0	6.7	8.7	57.5	2.3	15.3	1.9	12.3	1.0	6.5	.2	1.3	.0	.3	15.1	100	11.1

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DAY DAYTON, OH

PERIOD: 1948-1978

CLASS 3 / NIGHT

STATION NUMBER: 93815

NO. OBS.: 4926

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.1	.5	.6	5.0	.2	1.4	.2	1.4	.1	.5	.0	.0	.0	.0	1.0 8.8
NNE	.1	.4	.5	4.4	.1	.9	.1	.7	.0	.2	.0	.0	.0	.0	.8 6.6
NE	.1	.4	.3	2.6	.1	.4	.0	.1	.0	.1	.0	.0	.0	.0	.4 3.6
ENE	.0	.2	.2	2.0	.0	.4	.0	.2	.0	.0	.0	.0	.0	.0	.3 2.9
E	.0	.2	.3	2.6	.1	.7	.0	.3	.0	.1	.0	.0	.0	.0	.5 3.9
ESE	.0	.1	.3	2.2	.0	.3	.0	.3	.0	.1	.0	.0	.0	.0	.4 3.1
SE	.0	.4	.4	3.4	.1	.6	.0	.3	.0	.1	.0	.0	.0	.0	.6 4.8
SSE	.0	.4	.3	2.4	.1	.6	.1	.5	.0	.3	.0	.0	.0	.0	.5 4.2
S	.0	.3	.5	4.4	.2	1.7	.2	1.5	.1	1.0	.0	.2	.0	.0	1.1 9.2
SSW	.0	.2	.4	3.4	.2	1.7	.2	1.5	.1	.8	.0	.1	.0	.0	.9 7.7
SW	.0	.3	.4	3.2	.1	.8	.1	.8	.1	.4	.0	.1	.0	.0	.7 5.7
WSW	.0	.2	.3	2.8	.1	1.1	.1	1.1	.1	.8	.0	.3	.0	.1	.7 6.3
W	.0	.2	.5	3.9	.2	1.3	.2	1.4	.1	.8	.0	.2	.0	.0	.9 7.8
WNW	.0	.3	.4	3.4	.2	1.9	.2	2.0	.1	1.1	.0	.3	.0	.1	1.1 9.1
NW	.1	.4	.5	4.0	.1	1.2	.2	1.3	.1	.4	.0	.0	.0	.0	.9 7.5
NNW	.1	.5	.5	4.3	.2	1.4	.1	.8	.0	.3	.0	.1	.0	.0	.9 7.2
CALM	.2	1.6													.2 1.6
TOTAL	.8	6.8	6.4	54.0	2.0	16.5	1.7	14.2	.8	7.0	.2	1.4	.0	.1	11.9 100
															11.4

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DAY DAYTON, OH

PERIOD: 1948-1978

CLASS 4 / DAY

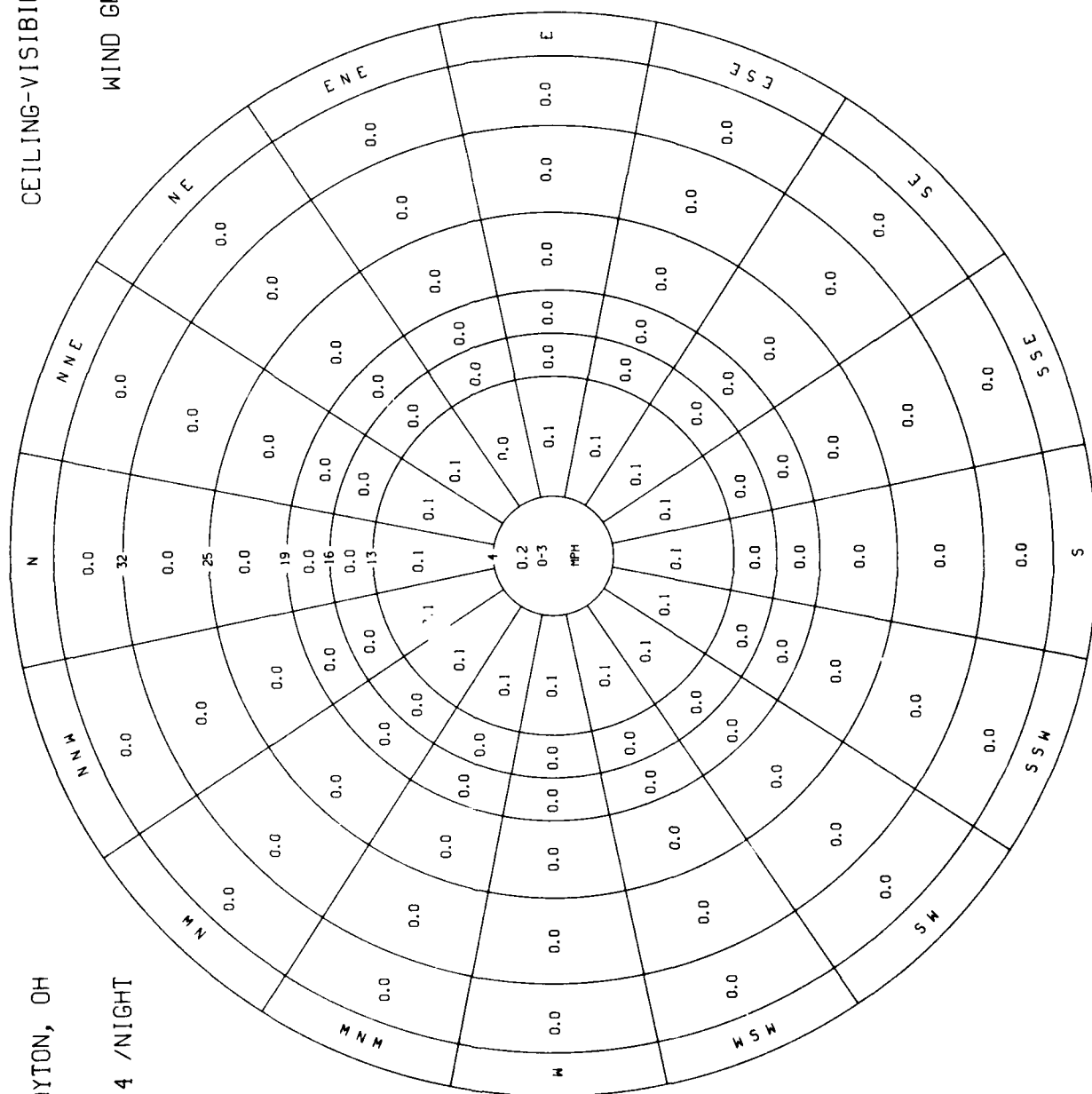
STATION NUMBER: 93815

NO. OBS.: 916

D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.4	.1	6.7	.0	1.3	.0	1.2	.0	.7	.0	.1	.0	.0	.2	10.4	10.7
NNE	.0	.1	.1	4.7	.0	.8	.0	.4	.0	.0	.0	.0	.0	.0	.1	6.0	8.9
NE	.0	.4	.1	3.3	.0	.4	.0	.5	.0	.1	.0	.1	.0	.0	.1	4.9	9.4
ENE	.0	.4	.1	3.5	.0	.5	.0	.1	.0	.0	.0	.0	.0	.0	.1	4.6	8.5
E	.0	.3	.1	3.5	.0	.2	.0	.4	.0	.1	.0	.0	.0	.0	.1	4.6	9.2
ESE	.0	.5	.1	4.8	.0	1.4	.0	.3	.0	.1	.0	.1	.0	.0	.1	7.3	10.1
SE	.0	.4	.1	7.1	.0	1.6	.0	.4	.0	.1	.0	.0	.0	.0	.2	9.7	9.9
SSE	.0	.0	.1	4.0	.0	.3	.0	.5	.0	.1	.0	.0	.0	.0	.1	6.0	10.4
S	.0	.3	.1	6.6	.0	1.7	.0	.9	.0	.2	.0	.1	.0	.0	.2	9.9	10.4
SSW	.0	.3	.1	5.0	.0	.4	.0	.9	.0	.4	.0	.0	.0	.0	.2	8.1	11.3
SW	.0	.5	.0	2.6	.0	.1	.0	.5	.0	.3	.0	.0	.0	.0	.1	4.1	10.1
WSW	.0	.1	.0	2.1	.0	.3	.0	.4	.0	.2	.0	.0	.0	.1	.1	3.3	11.4
W	.0	.5	.0	2.3	.0	.2	.0	.2	.0	.1	.0	.4	.0	.0	.1	3.8	10.2
WNW	.0	.1	.0	1.4	.0	.2	.0	.4	.0	.4	.0	.2	.0	.0	.1	2.8	13.1
NW	.0	.7	.1	4.1	.0	.9	.0	1.1	.0	.4	.0	.0	.0	.0	.1	7.2	10.8
NNW	.0	.2	.1	4.3	.0	.9	.0	.3	.0	.2	.0	.0	.0	.0	.1	5.9	10.0
CALM	.0	1.3													.0	1.3	
TOTAL	1	6.9	1.2	65.9	.3	13.5	.2	8.8	.1	3.6	.0	1.1	.0	.1	1.9	100	10.1

CEILING-VISIBILITY

WIND GRAPH



DAY DAYTON, OH

CLASS 4 /NIGHT

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DAY DAYTON, OH

PERIOD: 1948-1978

CLASS 4 / NIGHT

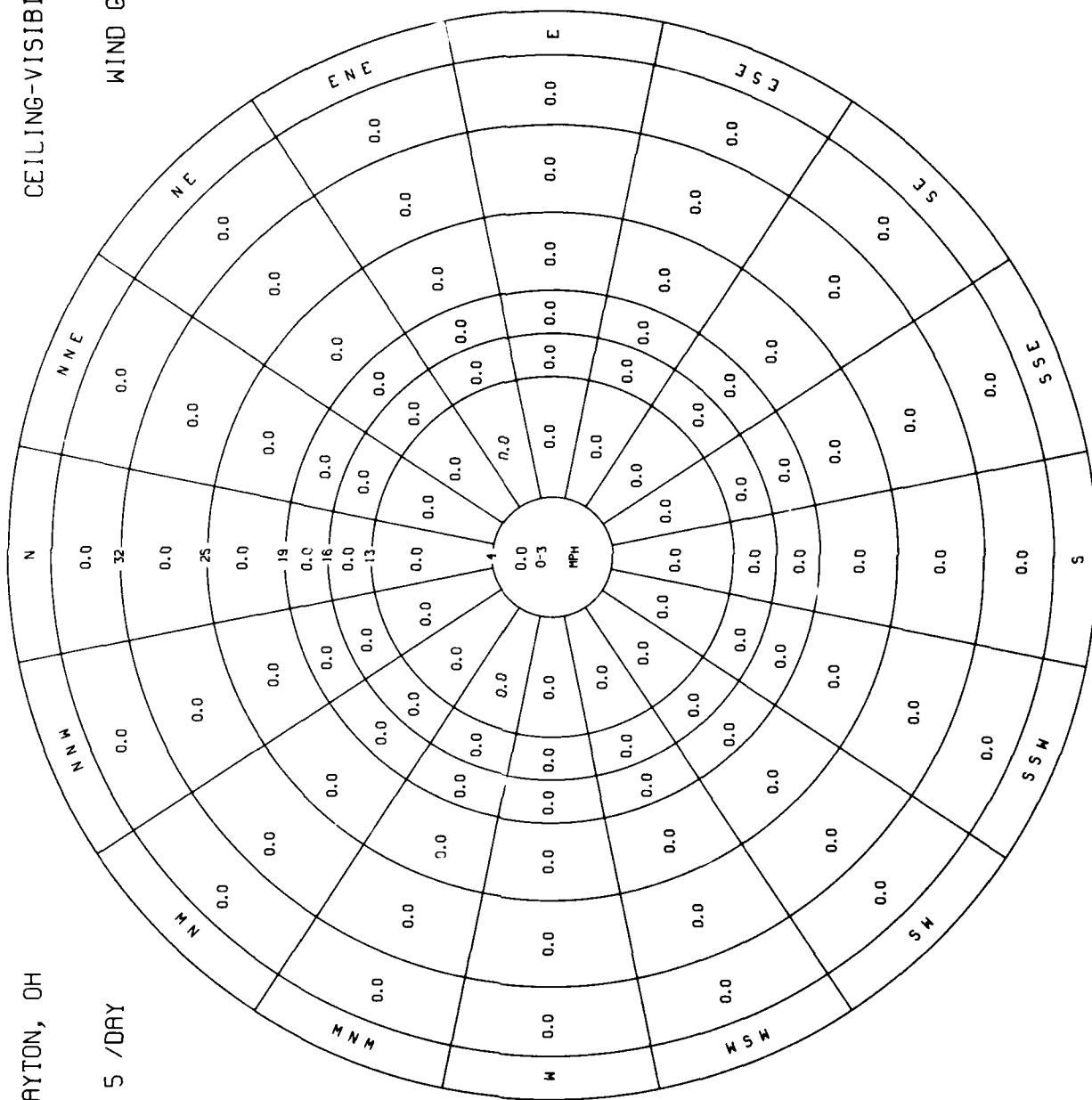
STATION NUMBER: 93815

NO. OBS.: 899

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.6	.1	6.7	.0	1.4	.0	1.1	.0	.1	.0	.0	.0	.0	.2 9.9
NNE	.0	.3	.1	4.3	.0	1.2	.0	.7	.0	.1	.0	.0	.0	.0	.1 6.7 10.2
NE	.0	.7	.1	2.9	.0	.2	.0	.0	.0	.0	.0	.2	.0	.0	.1 4.0 8.3
ENE	.0	.2	.0	2.1	.0	.3	.0	.4	.0	.0	.0	.0	.0	.0	.1 3.1 9.4
E	.0	.6	.1	4.0	.0	.6	.0	.3	.0	.0	.0	.0	.0	.0	.1 5.5 9.1
ESE	.0	.1	.1	3.0	.0	1.1	.0	.2	.0	.0	.0	.0	.0	.0	.1 4.4 9.8
SE	.0	.7	.1	3.7	.0	1.1	.0	.4	.0	.1	.0	.1	.0	.0	.1 6.1 10.1
SSE	.0	.0	.1	3.6	.0	1.4	.0	.2	.0	.3	.0	.0	.0	.0	.1 5.6 10.7
S	.0	.3	.1	6.8	.0	2.2	.0	1.0	.0	.2	.0	.0	.0	.0	.2 10.6 10.6
SSW	.0	.4	.1	5.9	.0	1.6	.0	1.1	.0	.3	.0	.0	.0	.0	.2 9.3 10.7
SW	.0	.1	.1	4.3	.0	.9	.0	.1	.0	.1	.0	.0	.0	.0	.1 5.6 9.8
WSW	.0	.0	.1	2.8	.0	.1	.0	.3	.0	.1	.0	.0	.0	.0	.1 3.3 9.2
W	.0	.4	.1	2.8	.0	.4	.0	.1	.0	.2	.0	.3	.0	.0	.1 4.3 10.5
WNW	.0	.2	.1	2.6	.0	.7	.0	.6	.0	.7	.0	.0	.0	.0	.1 4.7 11.7
NW	.0	.4	.1	4.3	.0	.6	.0	.7	.0	.4	.0	.1	.0	.1	.1 6.7 10.4
NNW	.0	.3	.1	6.1	.0	1.0	.0	.3	.0	.2	.0	.0	.0	.0	.2 8.0 9.3
CALM	.0	2.2													.0 2.2
TOTAL	.2	7.7	1.4	65.9	.3	14.9	.2	7.7	.1	3.0	.0	.8	.0	.1	2.2 100 9.8

CEILING-VISIBILITY

WIND GRAPH



DAY DAYTON, OH

CLASS 5 /DAY

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DAY DAYTON, OH

PERIOD: 1948-1978

CLASS 5 / DAY

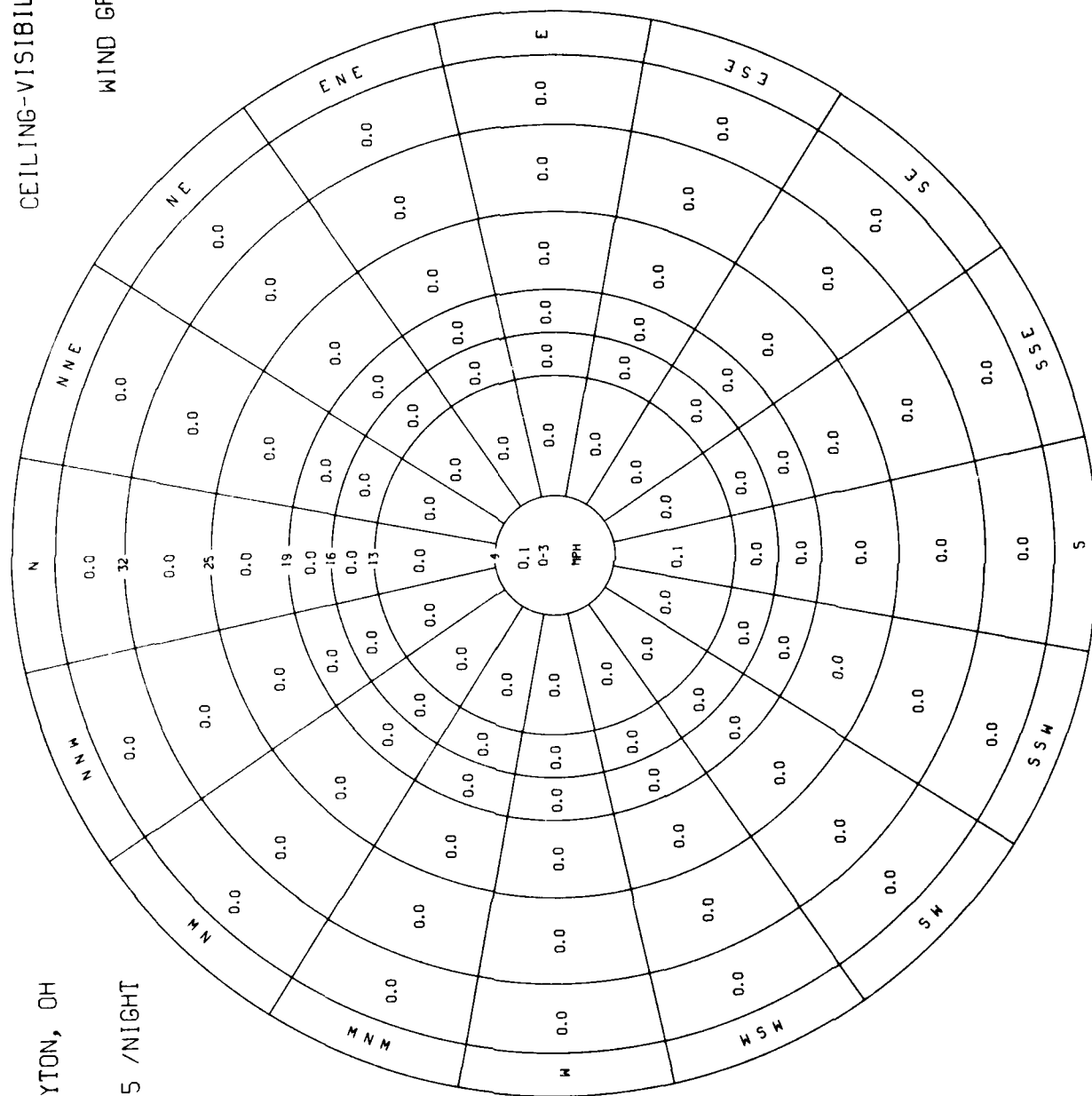
STATION NUMBER: 93815

NO. OBS.: 186

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL			
	A	B	A	B	A	B	A	B	A	B	A	B	A	B				
N	.0	.5	.0	5.4	.0	.5	.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	7.5	9.8
NNE	.0	1.1	.0	1.1	.0	1.1	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	3.8	9.6
NE	.0	.0	.0	3.2	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.8	8.3
ENE	.0	.5	.0	2.7	.0	.5	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	4.3	9.0
E	.0	.5	.0	4.3	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	5.4	7.1
ESE	.0	.5	.0	4.8	.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	6.5	8.0
SE	.0	.5	.0	8.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.6	8.6
SSE	.0	.5	.0	8.1	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.1	8.6
S	.0	.5	.0	10.2	.0	2.2	.0	.5	.0	1.1	.0	.0	.0	.0	.0	.1	14.5	10.5
SSW	.0	.0	.0	6.5	.0	1.6	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	9.7	10.9
SW	.0	.0	.0	4.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.8	7.7
WSW	.0	.5	.0	1.6	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	8.0
W	.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	6.5
WNW	.0	.5	.0	2.7	.0	.0	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0	4.8	11.6
NW	.0	.0	.0	5.4	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.5	8.9
NNW	.0	.0	.0	4.3	.0	.5	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	5.4	9.7
CALM	.0	1.6													.0	.0	1.6	
TOTAL	.0	8.1	.3	73.7	.0	9.7	.0	3.8	.0	4.3	.0	.5	.0	.0	.4	100		9.1

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: DAY DAYTON, OH

CLASS 5 / NIGHT

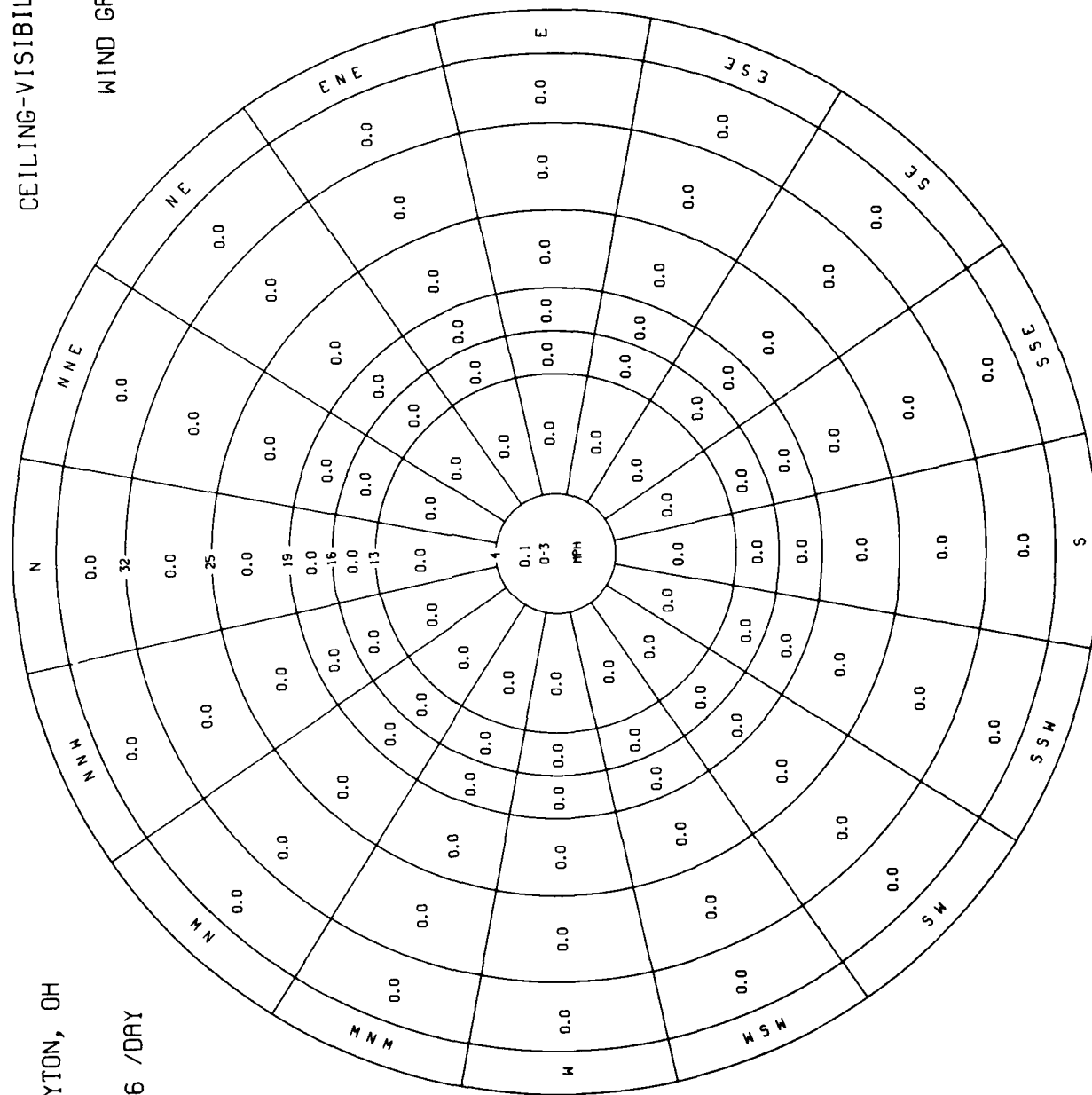
NO. OBS.: 269

STATION NUMBER: 93815

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B		C	D
N	.0	.7	.0	4.1	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.6	7.7
NNE	.0	1.1	.0	3.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	4.5	7.2
NNE	.0	.4	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	7.0
ENE	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	8.0
E	.0	.0	.0	3.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7	7.6
ESE	.0	1.1	.0	4.8	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	6.7	7.5
SE	.0	.7	.0	7.1	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.1	9.3	9.0
SSE	.0	.0	.0	7.1	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.1	7.8	9.4
S	.0	1.1	.1	10.4	.0	1.5	.0	1.5	.0	.7	.0	.4	.0	.0	.1	15.6	10.3
SSW	.0	.7	.0	6.3	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.1	7.8	9.0
SW	.0	.0	.0	6.3	.0	1.1	.0	.4	.0	.0	.0	.0	.0	.0	.1	7.8	10.1
WSW	.0	.4	.0	1.5	.0	.4	.0	.0	.0	.0	.0	.4	.0	.0	.0	2.6	11.3
W	.0	.4	.0	3.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	4.1	9.0
WNW	.0	.4	.0	3.7	.0	.7	.0	.4	.0	.4	.0	.4	.0	.0	.0	5.9	10.6
NW	.0	.7	.0	3.7	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	4.8	8.3
NNW	.0	.0	.0	3.7	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	4.5	10.2
CALM	.0	4.8													.0	4.8	
TOTAL	1	12.6	.5	72.5	.0	7.4	.0	4.1	.0	1.9	.0	1.5	.0	.0	.6	100	8.7

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: DAY DAYTON, OH

CLASS 6 / DAY

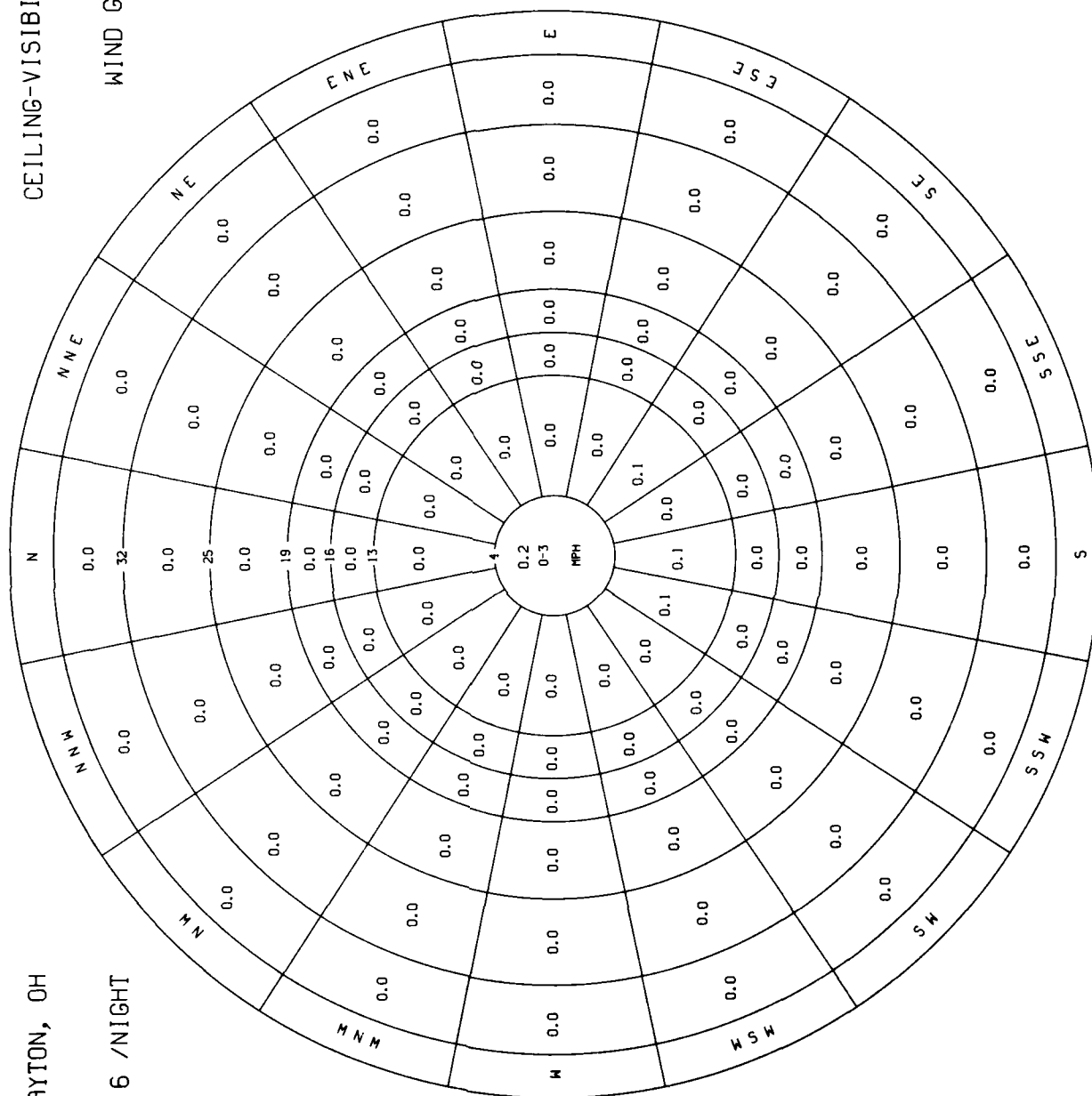
NO. OBS.: 223

STATION NUMBER: 93815

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B		C	D
N	.0	.9	.0	6.7	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	8.5	7.8
NNE	.0	1.8	.0	4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.8	5.1
NE	.0	.0	.0	4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0	6.6
ENE	.0	.4	.0	1.3	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	8.7
E	.0	1.8	.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.9	5.7
ESE	.0	.9	.0	4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.9	5.8
SE	.0	1.8	.0	8.5	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.8	7.0
SSE	.0	1.3	.0	5.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.2	6.9
S	.0	.9	.0	9.0	.0	.9	.0	.9	.0	.0	.0	.0	.0	.0	.0	11.7	8.7
SSW	.0	.9	.0	8.5	.0	.9	.0	.4	.0	.0	.0	.0	.0	.0	.0	10.8	9.1
SW	.0	.0	.0	2.7	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0	14.9
WSW	.0	.9	.0	1.3	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	11.1
W	.0	.0	.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	6.0
WNW	.0	.0	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	2.2	10.6
NW	.0	.0	.0	3.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.6	7.0
NNW	.0	.9	.0	4.5	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.8	7.2
CALM	.0	6.7												.0	6.7		
TOTAL	.1	19.3	.3	72.2	.0	4.5	.0	2.2	.0	.0	.0	.4	.0	1.3	.5	100	7.3

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: DAY DAVTON, OH

CLASS 6 / NIGHT

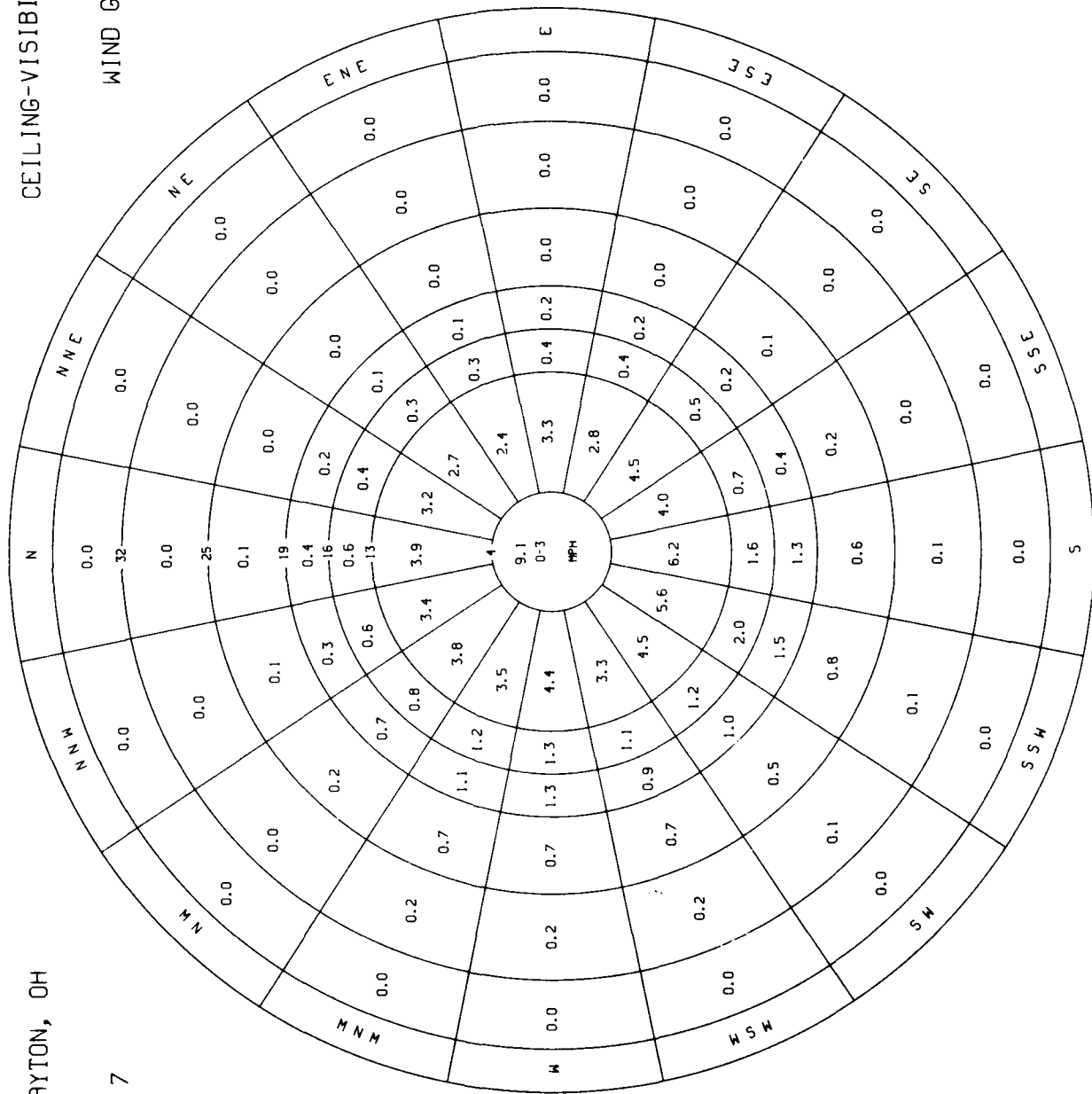
NO. OBS.: 341

STATION NUMBER: 93815

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.0	.6	.0	4.4	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.3	6.9
NNE	.0	.3	.0	4.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.4	6.8
NE	.0	.6	.0	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5	6.2
ENE	.0	.6	.0	2.1	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.9	7.4
E	.0	2.3	.0	2.6	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.3	5.4
ESE	.0	1.5	.0	3.2	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.0	6.3
SE	.0	2.1	.1	10.6	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.1	13.8	7.6
SSE	.0	.3	.0	5.6	.0	.9	.0	.6	.0	.0	.0	.0	.0	.0	.1	7.3	8.8
S	.0	1.2	.1	7.0	.0	.9	.0	.6	.0	.6	.0	.0	.0	.0	.1	10.3	9.4
SSW	.0	1.5	.1	7.9	.0	.3	.0	.6	.0	.0	.0	.3	.0	.0	.1	10.6	8.8
SW	.0	.3	.0	3.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.8	7.7
WSW	.0	.3	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.9	10.4
W	.0	1.5	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5	10.0
WNW	.0	1.2	.0	2.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	4.7	12.1
NW	.0	.6	.0	4.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.7	6.6
NNW	.0	.3	.0	2.9	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	3.8	7.2
CALM	.1	8.2													.1	8.2	
TOTAL	.2	23.2	.6	67.2	.0	4.7	.0	2.3	.0	.6	.0	.3	.0	1.8	.8	100	7.4

DAY DAYTON, OH

CLASS 7



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MFD MANSFIELD, OH

PERIOD: 1949-1978

CLASS 1 / DAY

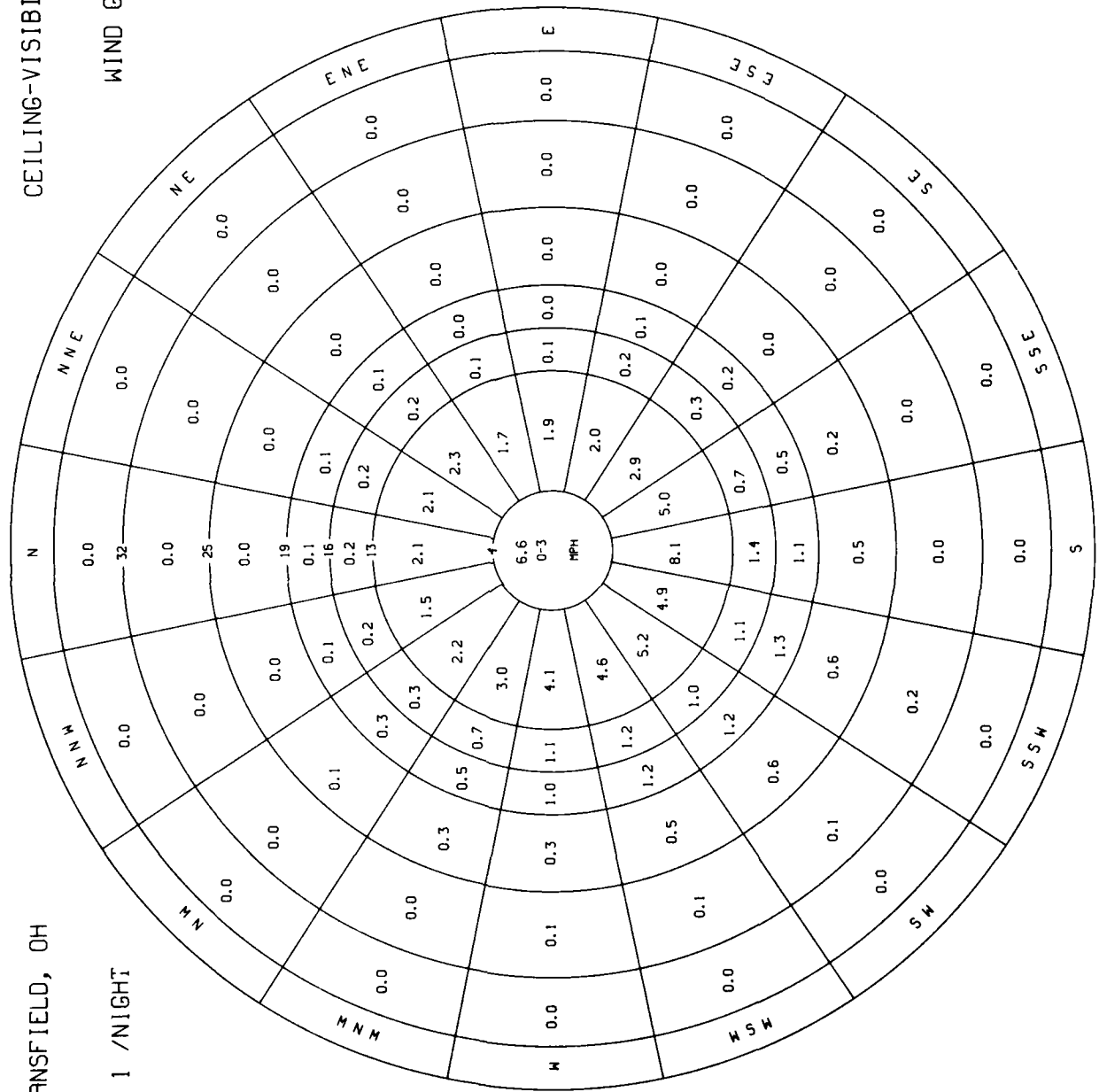
STATION NUMBER: 14891

NO. OBS.: 23042

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D		
N	.2	.3	3.0	3.8	.7	.9	.4	.5	.1	.1	.0	.0	.0	.0	4.5	5.6	10.2
NNE	.2	.2	2.9	3.6	.7	.8	.4	.4	.1	.1	.0	.0	.0	.0	4.1	5.2	10.3
NENE	.2	.3	2.1	2.7	.4	.5	.1	.2	.0	.0	.0	.0	.0	.0	2.9	3.6	9.3
ENE	.1	.1	1.4	1.7	.3	.3	.1	.1	.0	.0	.0	.0	.0	.0	1.8	2.3	9.3
E	.2	.2	1.8	2.3	.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	2.3	3.0	8.8
ESE	.1	.1	1.5	1.9	.3	.4	.1	.1	.0	.0	.0	.0	.0	.0	2.1	2.6	9.5
SE	.2	.3	1.8	2.3	.4	.5	.2	.3	.0	.0	.0	.0	.0	.0	2.7	3.4	9.5
SSE	.2	.3	2.8	3.6	.9	1.1	.5	.6	.2	.2	.0	.1	.0	.0	4.6	5.8	11.1
S	.3	.4	4.1	5.2	1.8	2.2	1.4	1.7	.6	.7	.1	.2	.0	.0	8.3	10.5	12.3
SSW	.2	.2	3.5	4.4	1.7	2.2	1.7	2.2	1.1	1.4	.3	.4	.0	.0	8.6	10.8	13.8
SW	.3	.3	3.8	4.7	1.7	2.2	1.5	1.8	.8	.9	.3	.3	.0	.0	8.2	10.3	13.0
WSW	.2	.2	3.6	4.5	1.8	2.3	1.6	2.0	.8	1.0	.2	.3	.0	.0	8.1	10.2	13.3
W	.2	.3	3.8	4.8	1.7	2.1	1.3	1.6	.6	.7	.1	.1	.0	.0	7.7	9.7	12.4
WNW	.1	.2	2.8	3.5	1.1	1.4	.8	1.1	.3	.4	.1	.1	.0	.0	5.3	6.6	12.3
NW	.2	.2	2.4	3.1	.8	1.0	.5	.7	.2	.2	.0	.0	.0	.0	4.1	5.2	11.0
NNW	.1	.2	2.1	2.7	.6	.8	.4	.5	.1	.1	.0	.0	.0	.0	3.4	4.3	10.8
CALM	.9	1.1													.9	1.1	
TOTAL	3.9	4.9	43.5	54.7	15.0	18.9	11.0	13.8	4.8	6.0	1.2	1.5	.1	.2	79.6	100	11.7

MFD MANSFIELD, OH

CLASS 1 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MFD MANSFIELD, OH

PERIOD: 1949-1978

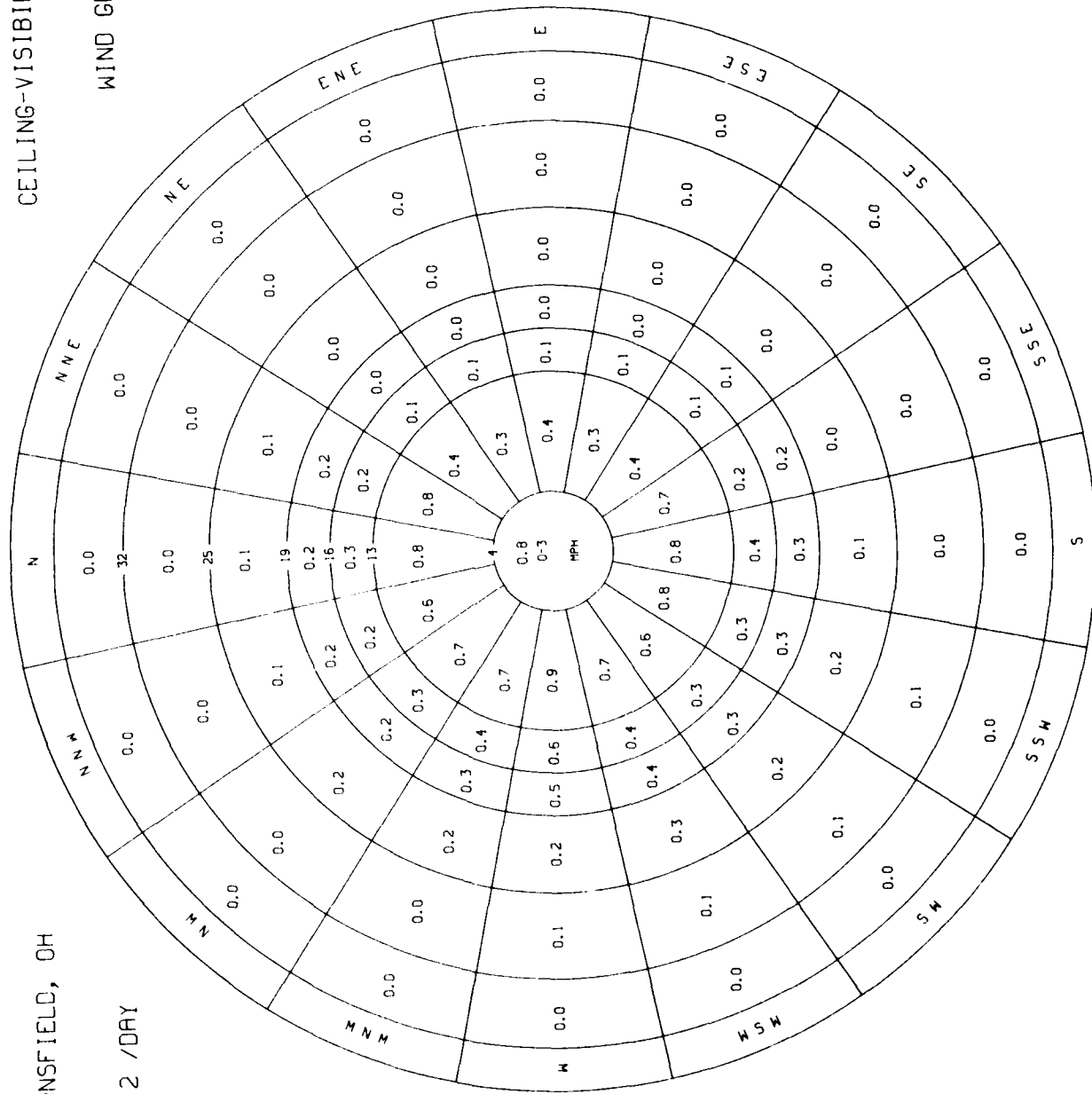
CLASS 1 / NIGHT

STATION NUMBER: 14891

NO. OBS.: 18962

D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.2	.3	2.1	2.6	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	2.6	3.2	8.2
NNE	.2	.2	2.1	2.6	.2	.2	.1	.2	.0	.0	.0	.0	.0	.0	2.7	3.3	8.4
NE	.3	.4	2.3	2.9	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	2.9	3.6	7.6
ENE	.2	.2	1.7	2.1	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	2.0	2.5	7.8
E	.2	.3	1.9	2.3	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	2.3	2.8	7.9
ESE	.2	.2	2.0	2.4	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	2.4	3.0	8.5
SE	.5	.6	2.9	3.6	.3	.3	.2	.2	.0	.0	.0	.0	.0	.0	3.9	4.9	8.2
SSE	.3	.4	5.0	6.2	.7	.8	.5	.6	.2	.2	.0	.0	.0	.0	6.7	8.2	9.5
S	.5	.7	8.1	10.0	1.4	1.7	1.1	1.4	.5	.6	.0	.1	.0	.0	11.8	14.6	10.2
SSW	.2	.2	4.9	6.1	1.1	1.4	1.3	1.6	.6	.8	.2	.3	.0	.0	8.4	10.4	12.0
SW	.3	.4	5.2	6.4	1.0	1.2	1.2	1.5	.6	.8	.1	.1	.0	.0	8.4	10.4	11.3
WSW	.1	.2	4.6	5.7	1.2	1.4	1.2	1.5	.5	.7	.1	.1	.0	.0	7.8	9.6	12.0
W	.2	.3	4.1	5.0	1.1	1.3	1.0	1.2	.3	.3	.1	.1	.0	.0	6.7	8.3	11.3
WNW	.1	.1	3.0	3.7	.7	.9	.5	.6	.3	.3	.0	.0	.0	.0	4.6	5.6	11.2
NW	.2	.2	2.2	2.8	.3	.4	.3	.4	.1	.1	.0	.0	.0	.0	3.1	3.8	9.7
NNW	.1	.2	1.5	1.8	.2	.2	.1	.2	.0	.1	.0	.0	.0	.0	2.0	2.4	9.3
CALM	2.7	3.3													2.7	3.3	
TOTAL	6.6	8.2	53.7	66.4	8.8	10.9	7.8	9.7	3.2	4.0	.6	.7	.1	.2	80.8	100	9.9

CEILING-VISIBILITY
WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MFD MANSFIELD, OH

PERIOD: 1949-1978

CLASS 2 / DAY

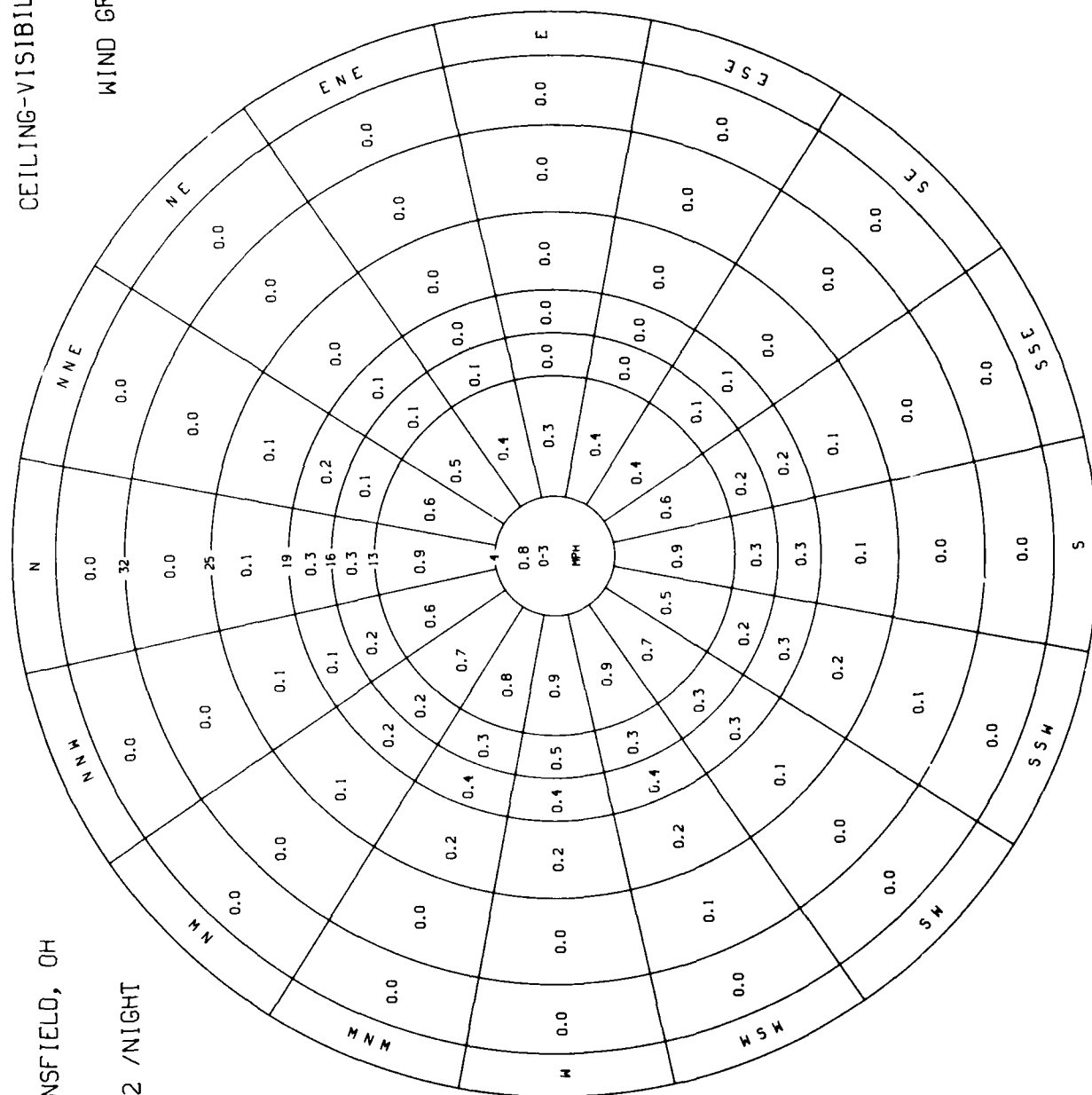
STATION NUMBER: 14891

NO. OBS.: 5903

O I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B		C	D
N	.0	.1	.8	3.9	.3	1.7	.2	1.1	.1	.4	.0	.1	.0	.0	1.5	7.4	12.1
NNE	.0	.2	.8	3.8	.2	1.2	.2	.8	.1	.4	.0	.1	.0	.0	1.3	6.5	11.7
NE	.0	.2	.4	2.1	.1	.4	.0	.2	.0	.1	.0	.0	.0	.0	.6	3.0	9.8
ENE	.0	.1	.3	1.4	.1	.3	.0	.1	.0	.1	.0	.0	.0	.0	.4	2.0	10.1
E	.0	.2	.4	1.9	.1	.3	.0	.2	.0	.1	.0	.0	.0	.0	.5	2.7	9.6
ESE	.0	.1	.3	1.5	.1	.3	.0	.2	.0	.1	.0	.0	.0	.0	.4	2.2	10.6
SF	.0	.1	.4	2.0	.1	.5	.1	.3	.0	.1	.0	.0	.0	.0	.6	3.1	10.6
SSE	.0	.2	.7	3.3	.2	1.2	.2	.9	.0	.2	.0	.0	.0	.0	1.2	5.8	11.4
S	.0	.2	.8	3.9	.4	2.0	.3	1.5	.1	.6	.0	.2	.0	.0	1.7	8.4	12.5
SSW	.0	.2	.8	3.9	.3	1.5	.3	1.7	.2	1.1	.1	.3	.0	.1	1.8	8.7	13.8
SW	.0	.1	.6	2.9	.3	1.5	.3	1.4	.2	.9	.1	.3	.0	.1	1.5	7.2	14.2
WSW	.0	.1	.7	3.5	.4	1.7	.4	2.1	.3	1.4	.1	.3	.0	.1	1.9	9.3	14.7
W	.0	.2	.9	4.4	.6	2.7	.5	2.6	.2	1.2	.1	.3	.0	.0	2.3	11.4	13.9
WNW	.0	.1	.7	3.3	.4	2.2	.3	1.4	.2	1.2	.0	.2	.0	.1	1.7	8.5	14.1
NW	.0	.2	.7	3.2	.3	1.4	.2	1.1	.2	.8	.0	.1	.0	.0	1.4	6.7	12.9
NNW	.0	.2	.6	3.0	.2	1.1	.2	.9	.1	.6	.0	.1	.0	.0	1.2	6.0	12.7
CALM	.0	1.3													.3	1.3	
TOTAL	.8	3.8	9.8	47.9	4.1	20.2	3.3	16.4	1.9	9.2	.4	2.0	.1	.4	20.4	100	12.7

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MFD MANSFIELD, OH

PERIOD: 1949-1978

CLASS 2 / NIGHT

STATION NUMBER: 14891

NO. OBS.: 4493

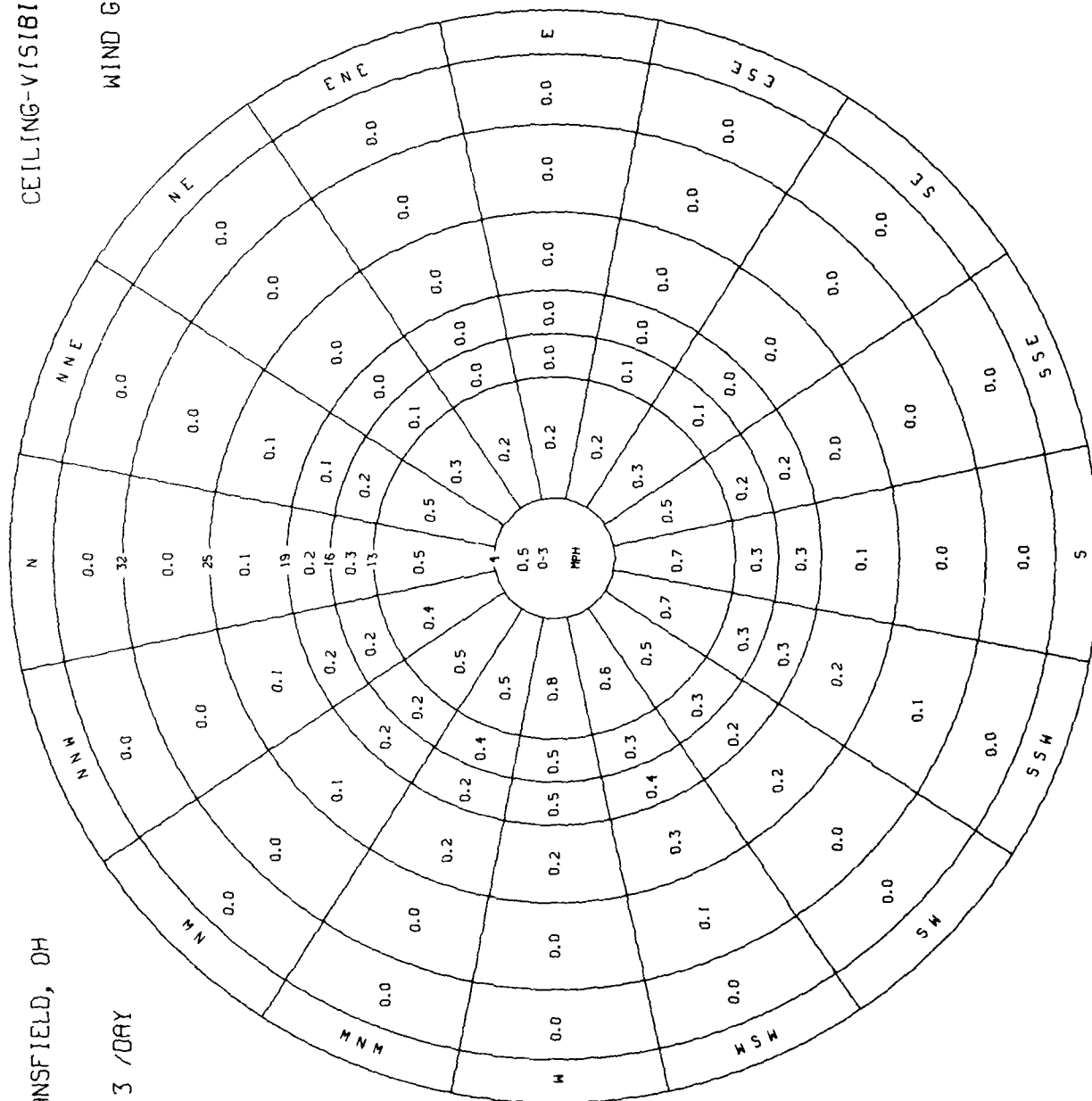
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.2	.9	4.6	.3	1.5	.3	1.3	.1	.4	.0	.0	.0	.0	1.6 8.1 11.6
NNE	.0	.1	.6	3.1	.1	.8	.2	.8	.1	.4	.0	.0	.0	.0	1.0 5.3 11.7
NE	.0	.1	.5	2.5	.1	.5	.1	.3	.0	.1	.0	.0	.0	.0	.7 3.5 10.2
ENE	.0	.1	.4	1.9	.1	.4	.0	.2	.0	.0	.0	.0	.0	.0	.5 2.7 9.8
E	.0	.2	.3	1.8	.0	.2	.0	.1	.0	.1	.0	.0	.0	.0	.5 2.4 9.5
ESE	.1	.3	.4	2.0	.0	.2	.0	.1	.0	.0	.0	.0	.0	.0	.5 2.6 9.3
SE	.0	.2	.4	2.0	.1	.5	.1	.3	.0	.1	.0	.0	.0	.0	.6 3.1 10.4
SSE	.0	.2	.6	3.4	.2	1.0	.2	.9	.1	.3	.0	.0	.0	.0	1.1 5.8 11.7
S	.0	.2	.9	4.5	.3	1.5	.3	1.5	.1	.6	.0	.1	.0	.0	1.6 8.4 12.1
SSW	.0	.1	.5	2.6	.2	1.2	.3	1.4	.2	1.0	.1	.5	.0	.0	1.3 6.7 14.9
SW	.1	.3	.7	3.5	.3	1.4	.3	1.6	.1	.7	.0	.1	.0	.0	1.5 7.7 12.9
WSW	.0	.1	.9	4.5	.3	1.6	.4	2.2	.2	1.2	.1	.4	.0	.0	1.9 10.1 13.7
W	.1	.3	.9	4.5	.5	2.4	.4	2.3	.2	1.2	.0	.2	.0	.1	2.1 11.0 13.5
WNW	.0	.1	.8	4.4	.3	1.8	.4	1.9	.2	.8	.0	.1	.0	.0	1.7 9.1 13.2
NW	.0	.2	.7	3.6	.2	1.1	.2	1.2	.1	.6	.0	.1	.0	.0	1.3 6.8 12.4
NNW	.0	.2	.6	3.2	.2	.9	.1	.7	.1	.4	.0	.0	.0	.0	1.1 5.5 11.6
CALM	.3	1.3													.3 1.3
TOTAL	.8	4.2	10.0	52.3	3.2	16.8	3.2	16.9	1.5	8.0	.3	1.6	.0	.2	19.2 100 12.2

CEILING-VISIBILITY

WIND GRAPH

MFD MANSFIELD, OH

CLASS 3 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1949-1978

STATION NAME: MFD MANSFIELD, OH

CLASS 3 / DAY

NO. OBS.: 4768

STATION NUMBER: 14891

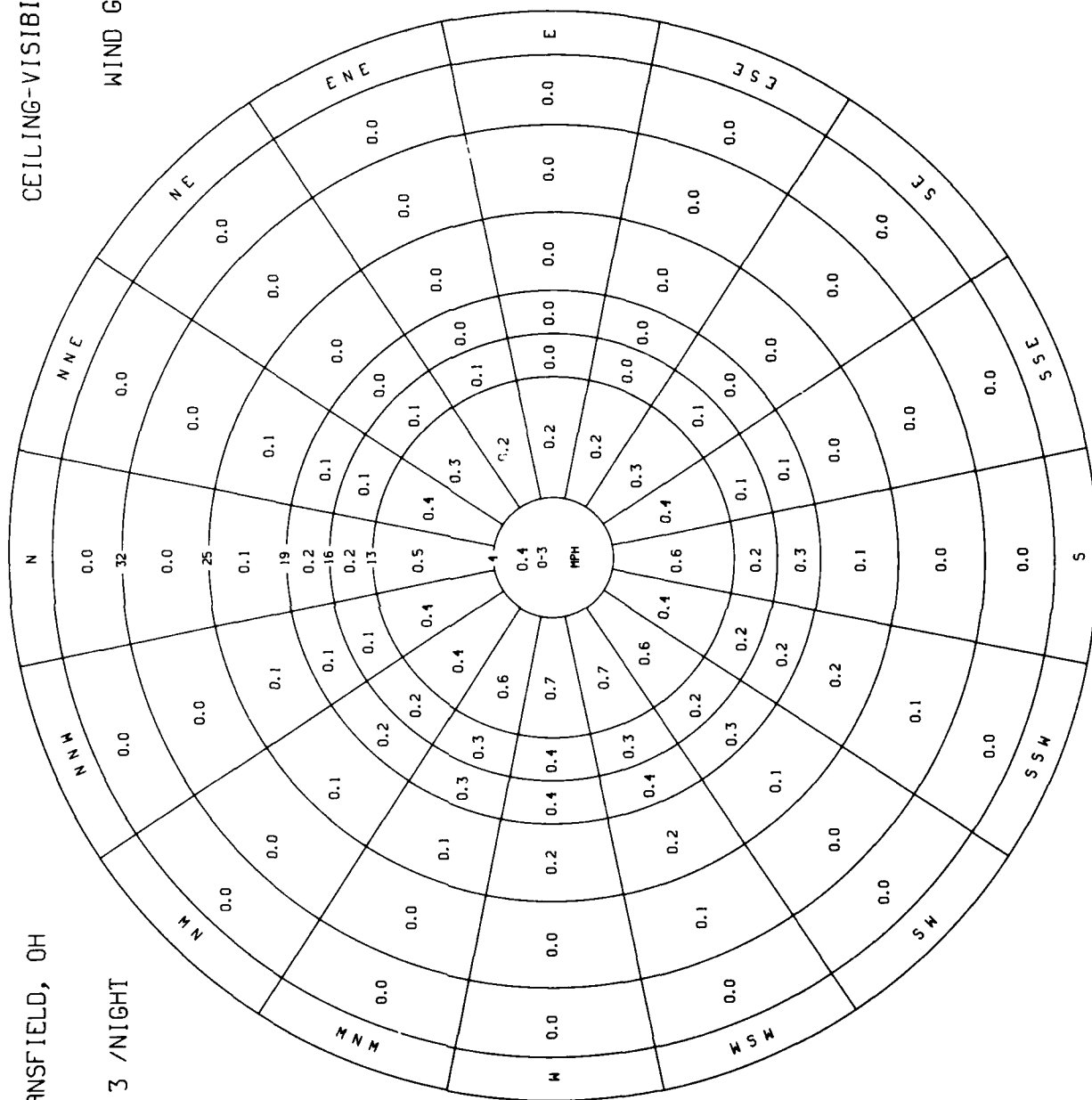
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.1	.5	3.2	.3	1.7	.2	1.0	.1	.4	.0	.2	.0	.0	1.1 6.6
NNE	.0	.1	.5	3.3	.2	1.3	.1	.9	.1	.4	.0	.0	.0	.0	1.0 6.1
NE	.0	.1	.3	1.8	.1	.4	.0	.2	.0	.1	.0	.0	.0	.0	.4 2.6
ENE	.0	.1	.2	1.2	.0	.3	.0	.1	.0	.0	.0	.0	.0	.0	.3 1.7
E	.0	.2	.2	1.4	.0	.3	.0	.1	.0	.0	.0	.0	.0	.0	.3 2.1
ESE	.0	.1	.2	1.3	.1	.3	.0	.1	.0	.1	.0	.0	.0	.0	.3 2.0
SE	.0	.1	.3	1.7	.1	.5	.0	.3	.0	.1	.0	.0	.0	.0	.4 2.6
SSE	.0	.2	.5	3.1	.2	1.0	.2	1.1	.0	.2	.0	.0	.0	.0	.9 5.6
S	.0	.1	.7	4.0	.3	2.1	.3	1.6	.1	.6	.0	.2	.0	.0	1.4 8.6
SSW	.0	.2	.7	4.1	.3	1.6	.3	1.8	.2	1.3	.1	.3	.0	.1	1.6 9.4
SW	.0	.1	.5	3.2	.3	1.8	.2	1.5	.2	1.0	.0	.3	.0	.1	1.3 8.0
WSW	.0	.1	.6	3.6	.3	2.1	.4	2.4	.3	1.6	.1	.4	.0	.1	1.7 10.2
W	.0	.1	.8	4.6	.5	3.1	.5	3.0	.2	1.3	.0	.2	.0	.0	2.0 12.3
WNW	.0	.1	.5	3.3	.4	2.5	.2	1.5	.2	1.3	.0	.1	.0	.0	1.5 8.9
NW	.0	.2	.5	3.1	.2	1.4	.2	1.1	.1	.9	.0	.0	.0	.0	1.1 6.7
NNW	.0	.2	.4	2.7	.2	1.0	.2	.9	.1	.6	.0	.1	.0	.0	.9 5.5
CALM	.2	.9													.2 .9
TOTAL	.5	3.0	7.5	45.8	3.5	21.3	2.9	17.7	1.6	10.0	.3	1.9	.1	.4	16.5 100

CEILING-VISIBILITY

WIND GRAPH

MFD MANSFIELD, OH

CLASS 3 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MFD MANSFIELD, OH

PERIOD: 1949-1978

CLASS 3 / NIGHT

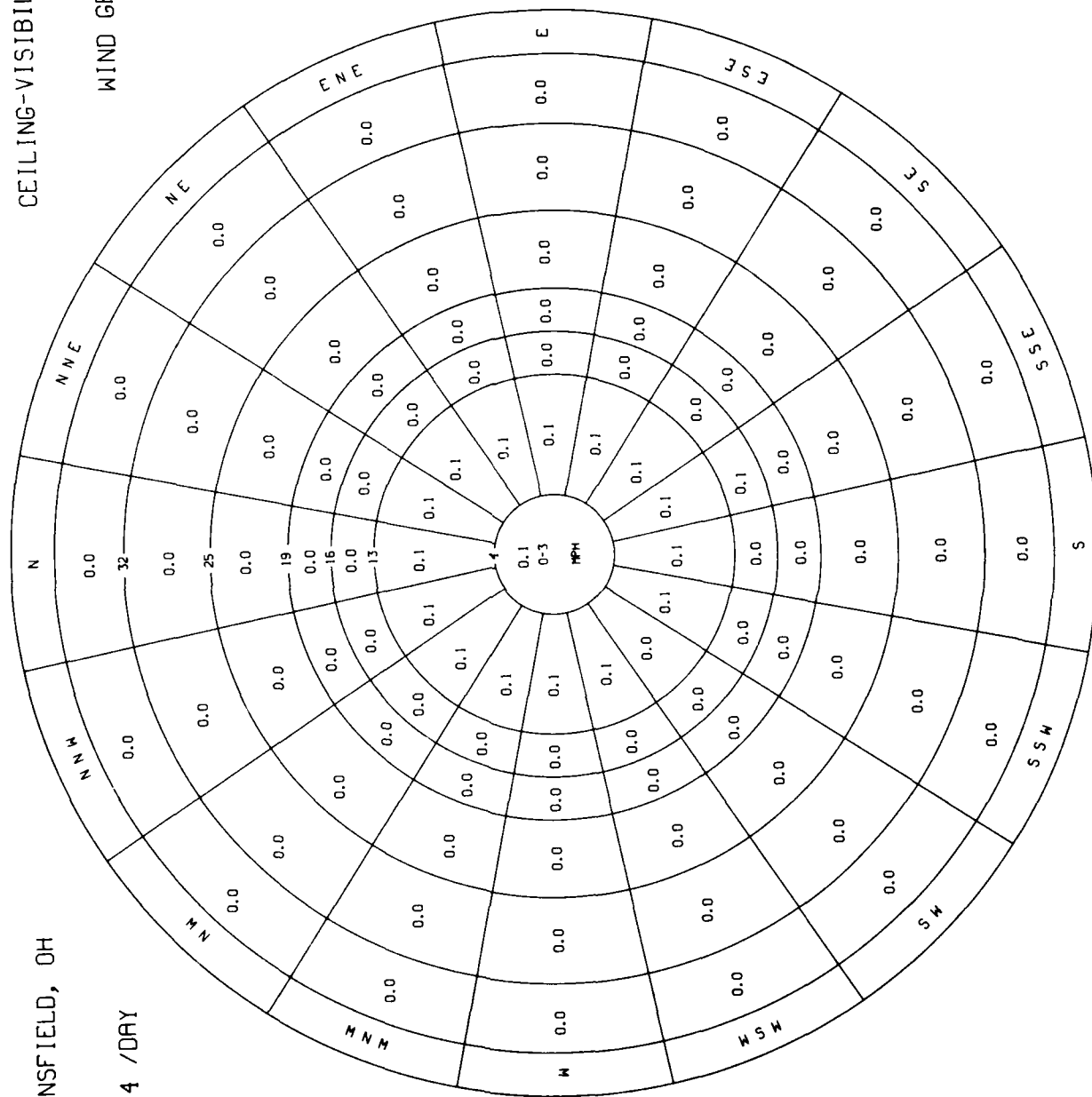
STATION NUMBER: 14891

NO. OBS.: 3339

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.0	.1	.5	3.6	.2	1.3	.2	1.4	.1	.5	.0	.0	.0	.0	1.0	6.9	12.0
NNE	.0	.1	.4	2.7	.1	.7	.1	.8	.1	.4	.0	.0	.0	.0	.7	4.6	12.2
NE	.0	.0	.3	1.9	.1	.4	.0	.3	.0	.1	.0	.0	.0	.0	.4	2.7	10.6
ENE	.0	.1	.2	1.5	.1	.4	.0	.2	.0	.1	.0	.0	.0	.0	.3	2.2	10.2
E	.0	.1	.2	1.5	.0	.2	.0	.1	.0	.1	.0	.0	.0	.0	.3	1.9	10.0
ESE	.0	.2	.2	1.6	.0	.2	.0	.1	.0	.1	.0	.0	.0	.0	.3	2.2	10.0
SE	.0	.2	.3	1.8	.1	.5	.0	.3	.0	.1	.0	.0	.0	.0	.4	2.9	11.0
SSE	.0	.2	.4	2.9	.1	.8	.1	1.0	.0	.3	.0	.1	.0	.0	.8	5.3	11.8
S	.0	.1	.6	4.3	.2	1.6	.3	1.8	.1	.6	.0	.1	.0	.0	1.2	8.7	12.7
SSW	.0	.1	.4	2.7	.2	1.3	.2	1.7	.2	1.1	.1	.5	.0	.0	1.1	7.4	15.3
SW	.0	.3	.6	4.1	.2	1.6	.3	1.9	.1	1.0	.0	.1	.0	.1	1.3	9.1	13.1
WSW	.0	.1	.7	4.8	.3	1.9	.4	2.8	.2	1.6	.1	.4	.0	.0	1.6	11.5	14.1
W	.0	.2	.7	4.9	.4	2.9	.4	2.9	.2	1.3	.0	.2	.0	.0	1.8	12.4	13.6
WNW	.0	.1	.6	4.3	.3	2.2	.3	2.3	.1	1.0	.0	.1	.0	.0	1.4	9.9	13.7
NW	.0	.1	.4	3.1	.2	1.2	.2	1.4	.1	.6	.0	.1	.0	.0	.9	6.6	12.9
NNW	.0	.1	.4	2.6	.1	.8	.1	.8	.1	.4	.0	.0	.0	.0	.7	4.7	12.3
CALM	.1	.8													.1	.8	
TOTAL	.4	2.9	6.9	48.3	2.5	17.8	2.8	19.7	1.3	9.3	.3	1.8	.0	.2	14.2	100	12.8

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MFD MANSFIELD, OH

PERIOD: 1949-1978

CLASS 4 / DAY

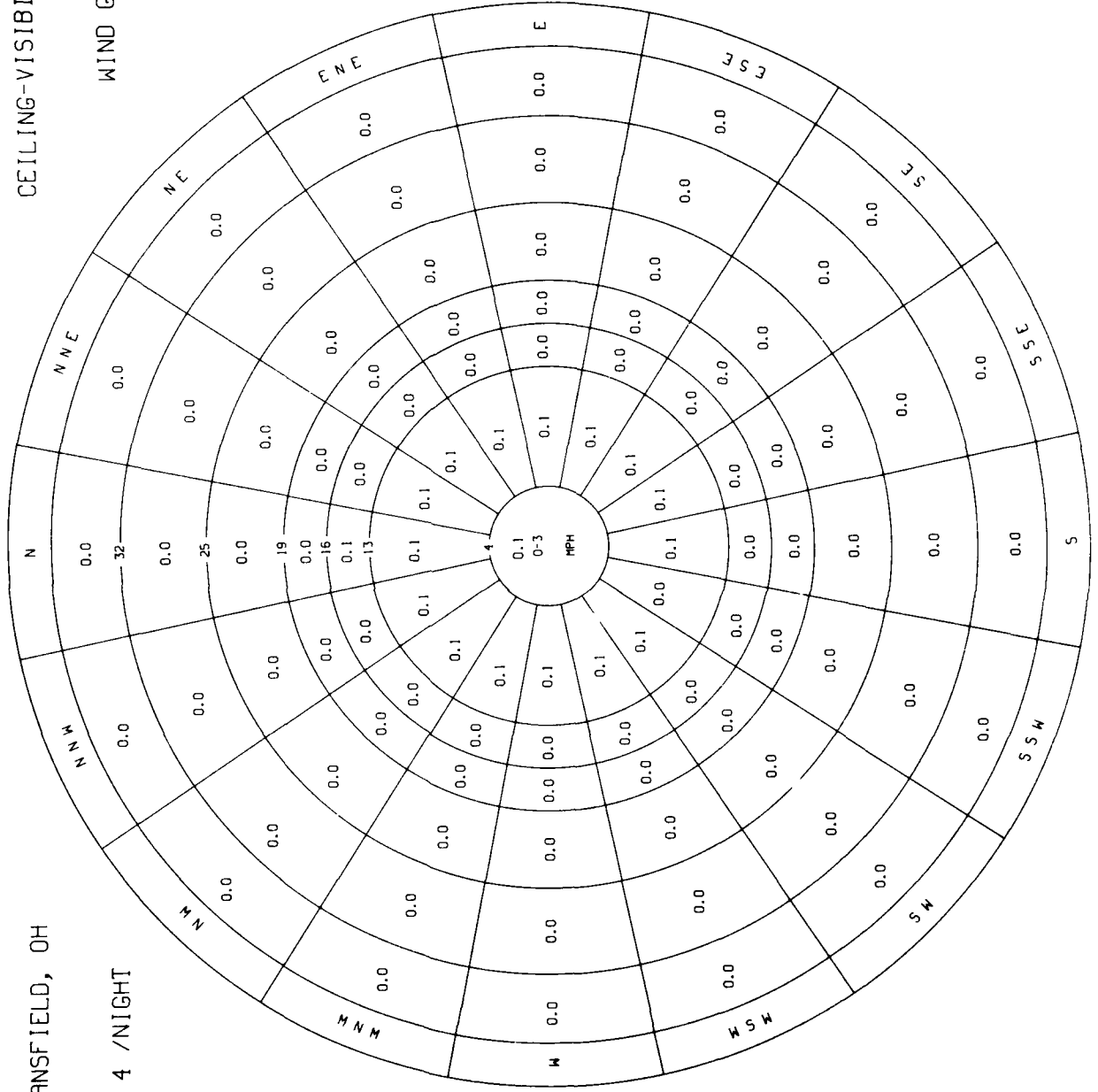
STATION NUMBER: 14891

NO. OBS.: 740

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.0	.0	.1	5.1	.0	1.6	.0	1.8	.0	.4	.0	.0	.0	.0	.2	8.9	12.1
NNE	.0	.1	.1	4.1	.0	1.1	.0	.5	.0	.8	.0	.0	.0	.0	.2	6.6	11.7
NE	.0	.4	.1	3.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.1	4.5	8.6
ENE	.0	.1	.1	2.0	.0	.4	.0	.3	.0	.1	.0	.0	.0	.0	.1	3.0	10.7
E	.0	.1	.1	3.8	.0	.5	.0	.5	.0	.1	.0	.0	.0	.0	.1	5.1	10.2
ESE	.0	.0	.1	2.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.1	2.8	10.7
SE	.0	.3	.1	3.2	.0	.9	.0	.3	.0	.3	.0	.0	.0	.0	.1	5.0	10.9
SSE	.0	.5	.1	4.1	.1	2.2	.0	.4	.0	.0	.0	.0	.0	.0	.2	7.2	10.4
S	.0	.4	.1	3.4	.0	1.8	.0	1.2	.0	.7	.0	.3	.0	.0	.2	7.7	12.2
SSW	.0	.1	.1	3.0	.0	1.5	.0	1.4	.0	.3	.0	.1	.0	.0	.2	6.4	13.0
SW	.0	.1	.0	1.9	.0	.7	.0	.9	.0	.4	.0	.3	.0	.0	.1	4.3	14.1
WSW	.0	.0	.1	2.7	.0	.4	.0	1.4	.0	1.1	.0	.4	.0	.1	.2	6.1	15.2
W	.0	.4	.1	2.7	.0	1.4	.0	1.2	.0	1.1	.0	.7	.0	.3	.2	7.7	15.0
WNW	.0	.0	.1	3.0	.0	1.4	.0	1.2	.0	1.1	.0	.5	.0	.0	.2	7.3	14.4
NW	.0	.3	.1	3.8	.0	1.8	.0	1.4	.0	.4	.0	.4	.0	.0	.2	8.0	12.7
NNW	.0	.1	.1	3.8	.0	1.5	.0	1.2	.0	.8	.0	.1	.0	.0	.2	7.6	12.7
CALM	.0	1.9													.0	1.9	
TOTAL	.1	5.1	1.3	52.0	.5	18.0	.4	14.1	.2	7.6	.1	2.8	.0	.4	2.6	100	12.1

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MFD MANSFIELD, OH

PERIOD: 1949-1978

CLASS 4 / NIGHT

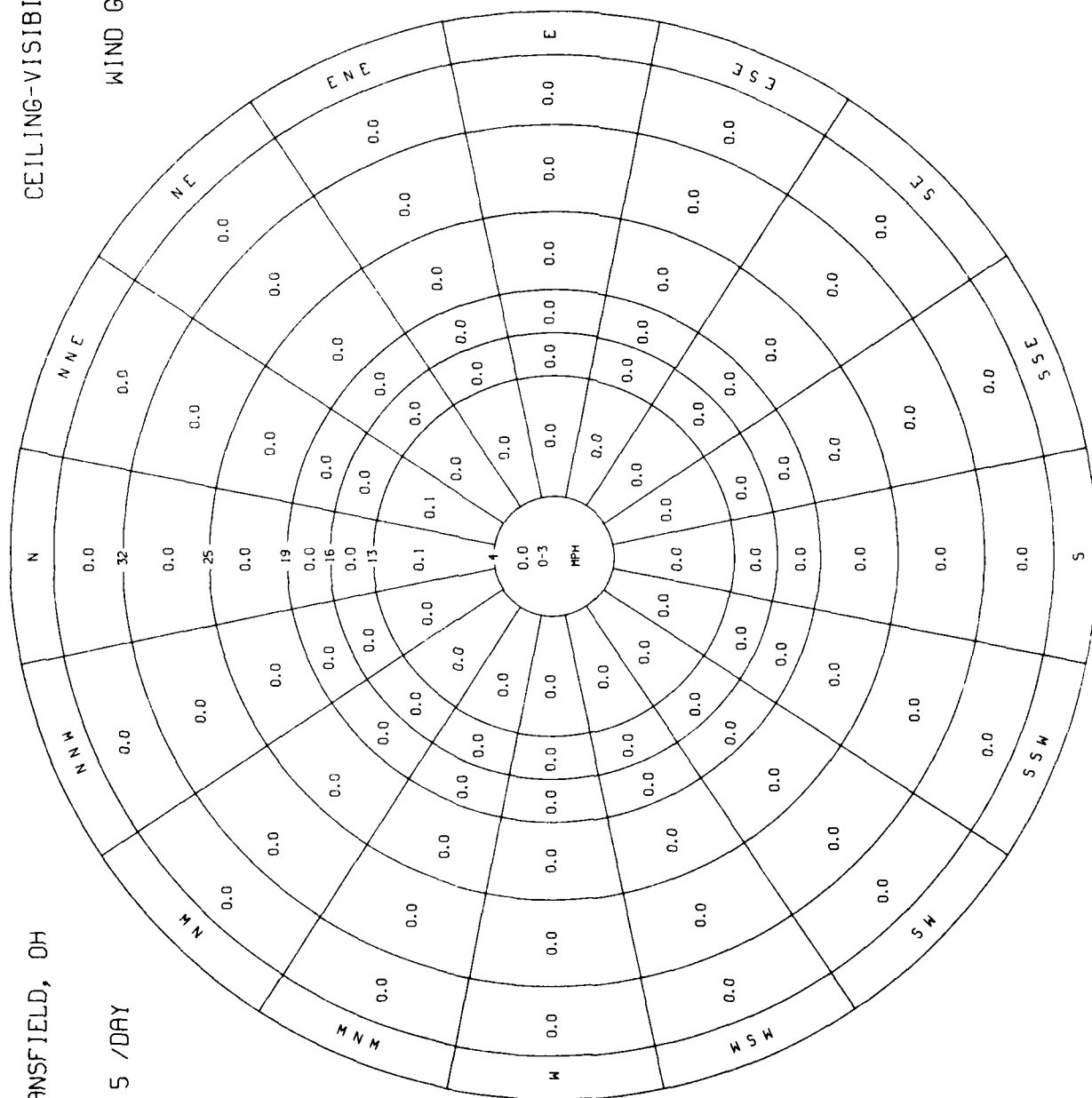
STATION NUMBER: 14891

NO. OBS.: 579

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.0	.3	.1	5.4	.1	3.5	.0	1.7	.0	.2	.0	.2	.0	.0	.3	11.2	12.3
NNE	.0	.5	.1	2.9	.0	.7	.0	1.0	.0	.2	.0	.0	.0	.0	.1	5.4	10.9
NE	.0	.0	.1	3.3	.0	.9	.0	.5	.0	.2	.0	.0	.0	.0	.1	4.8	11.1
ENE	.0	.2	.1	2.8	.0	.2	.0	.5	.0	.0	.0	.0	.0	.0	.1	3.6	9.2
E	.0	.2	.1	3.5	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.1	4.1	9.8
ESE	.0	.5	.1	2.9	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.1	3.8	8.8
SE	.0	.5	.1	2.1	.0	1.0	.0	.5	.0	.0	.0	.0	.0	.0	.1	4.1	9.8
SSE	.0	.2	.1	4.1	.0	1.6	.0	1.0	.0	.5	.0	.0	.0	.0	.2	7.4	12.3
S	.0	.3	.1	5.5	.0	1.0	.0	1.2	.0	.5	.0	.0	.0	.0	.2	8.6	10.7
SSW	.0	.2	.0	1.6	.0	1.0	.0	.7	.0	.7	.0	.2	.0	.0	.1	4.3	14.1
SW	.0	.3	.1	2.2	.0	1.2	.0	.7	.0	.0	.0	.2	.0	.0	.1	4.7	11.5
WSW	.0	.0	.1	3.1	.0	1.6	.0	.3	.0	.5	.0	.3	.0	.2	.1	6.0	13.3
W	.0	.2	.1	4.1	.0	1.6	.0	1.4	.0	.5	.0	.2	.0	.0	.2	7.9	12.9
WNW	.0	.0	.1	4.0	.0	.9	.0	1.2	.0	.3	.0	.0	.0	.0	.2	6.4	12.3
NW	.0	.0	.1	4.5	.0	.9	.0	1.0	.0	.7	.0	.2	.0	.0	.2	7.3	12.6
NNW	.0	.2	.1	4.8	.0	1.7	.0	.7	.0	.7	.0	.0	.0	.0	.2	8.1	11.6
CALM	.1	2.1													.1	2.1	
TOTAL	.1	5.7	1.4	56.8	.4	17.8	.3	13.3	.1	5.0	.0	1.2	.0	.2	2.5	100	11.4

MFD MANSFIELD, OH

CLASS 5 / DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MFD MANSFIELD, OH

PERIOD: 1949-1978

CLASS 5 / DAY

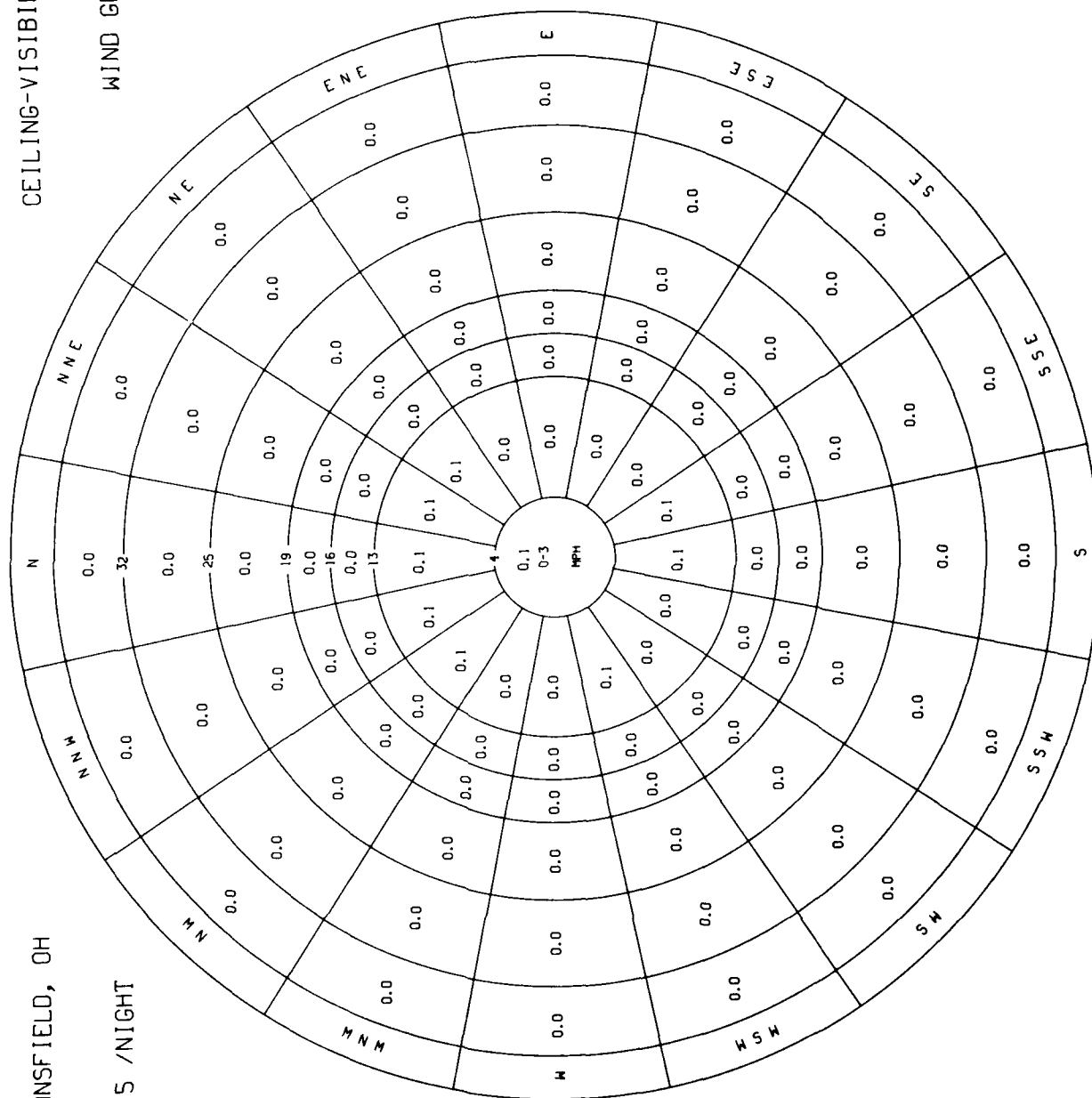
STATION NUMBER: 14891

NO. OBS.: 189

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.0	.0	.1	7.9	.0	2.1	.0	1.1	.0	.0	.0	.0	.0	.0	.1	11.1	10.8
NNE	.0	.0	.1	9.0	.0	1.1	.0	.5	.0	.0	.0	.5	.0	.0	.1	11.1	10.6
NE	.0	.5	.0	3.7	.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	5.3	8.0
ENE	.0	.5	.0	2.1	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	7.8
E	.0	.0	.0	4.8	.0	1.1	.0	.5	.0	.0	.0	.0	.0	.0	.0	6.3	9.8
ESE	.0	.0	.0	3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	7.7
SE	.0	.0	.0	4.2	.0	1.6	.0	.0	.0	.5	.0	.0	.0	.0	.0	6.3	10.8
SSE	.0	.0	.0	3.2	.0	1.1	.0	.5	.0	.5	.0	.0	.0	.0	.0	5.3	11.9
S	.0	.0	.0	2.6	.0	2.1	.0	.5	.0	.0	.0	.0	.0	.0	.0	5.3	11.7
SSW	.0	.0	.0	3.2	.0	1.1	.0	.0	.0	1.1	.0	.0	.0	.0	.0	5.3	13.0
SW	.0	.0	.0	1.1	.0	.5	.0	1.1	.0	.0	.0	.0	.0	.0	.0	2.6	12.8
WSW	.0	.5	.0	3.2	.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	4.8	9.1
W	.0	.5	.0	4.8	.0	1.1	.0	.5	.0	1.1	.0	.5	.0	.0	.1	8.5	12.6
WNW	.0	.5	.0	4.8	.0	.5	.0	.5	.0	.5	.0	1.1	.0	.0	.1	7.9	13.3
NW	.0	.0	.0	3.2	.0	.5	.0	1.1	.0	.0	.0	.0	.0	.0	.0	4.8	10.7
NNW	.0	.5	.0	2.6	.0	2.1	.0	.5	.0	.5	.0	.0	.0	.5	.0	6.9	12.8
CALM	.0	2.1													.0	2.1	
TOTAL	.0	5.3	.4	63.5	.1	16.4	.1	7.9	.0	4.2	.0	2.1	.0	.5	.7	10.0	10.8

CEILING-VISIBILITY

WIND GRAPH



MFD MANSFIELD, OH

CLASS 5 / NIGHT

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1949-1978

STATION NAME: MFD MANSFIELD, OH

CLASS 5 / NIGHT

NO. OBS.: 257

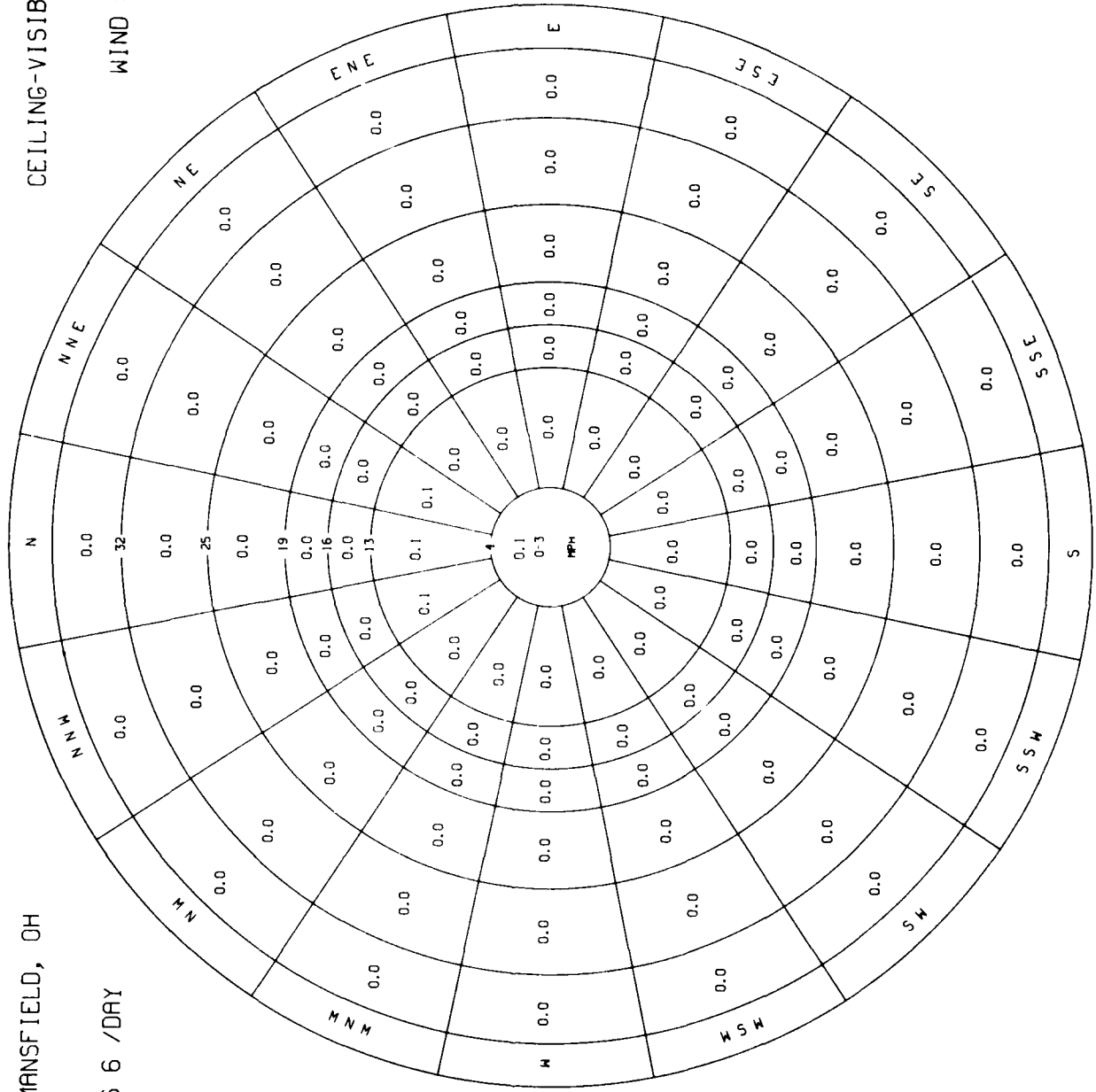
STATION NUMBER: 14891

O I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.4	.1	10.1	.0	.4	.0	.8	.0	.8	.0	.0	.0	.0	.1 12.5
NNE	.0	.0	.1	6.6	.0	1.6	.0	.8	.0	.4	.0	.0	.0	.0	.1 9.3
NE	.0	.0	.1	6.6	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.1 7.0
ENE	.0	.0	.0	1.6	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0 2.3
E	.0	.0	.0	1.6	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.9
ESE	.0	.4	.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.5
SE	.0	.0	.0	2.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.7
SSE	.0	.4	.1	5.1	.0	.8	.0	1.2	.0	.0	.0	.0	.0	.0	.1 7.4
S	.0	.4	.1	5.1	.0	1.2	.0	.4	.0	.4	.0	.0	.0	.0	.1 7.4
SSW	.0	.0	.0	3.5	.0	.8	.0	.4	.0	.4	.0	.0	.0	.0	.1 5.1
SW	.0	.0	.0	2.7	.0	.8	.0	.4	.0	.0	.0	.0	.0	.0	.0 3.9
WSW	.0	.4	.1	4.7	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.1 5.8
W	.0	.4	.0	2.7	.0	1.2	.0	.4	.0	1.6	.0	.0	.0	.0	.1 6.2
WNW	.0	.4	.0	4.3	.0	.0	.0	.0	.0	.8	.0	.0	.0	.4	.1 5.8
NW	.0	.4	.1	5.8	.0	.4	.0	.4	.0	.4	.0	.0	.0	.0	.1 7.4
NNW	.0	.8	.1	7.0	.0	.8	.0	.4	.0	.8	.0	.0	.0	.0	.1 9.7
CALM	.0	1.9													.0 1.9
TOTAL	.1	5.8	.8	73.2	.1	9.3	.1	5.8	.1	5.4	.0	.0	.0	.4	1.1 10.2

MFD MANSFIELD, OH

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MFD MANSFIELD, OH

PERIOD: 1949-1978

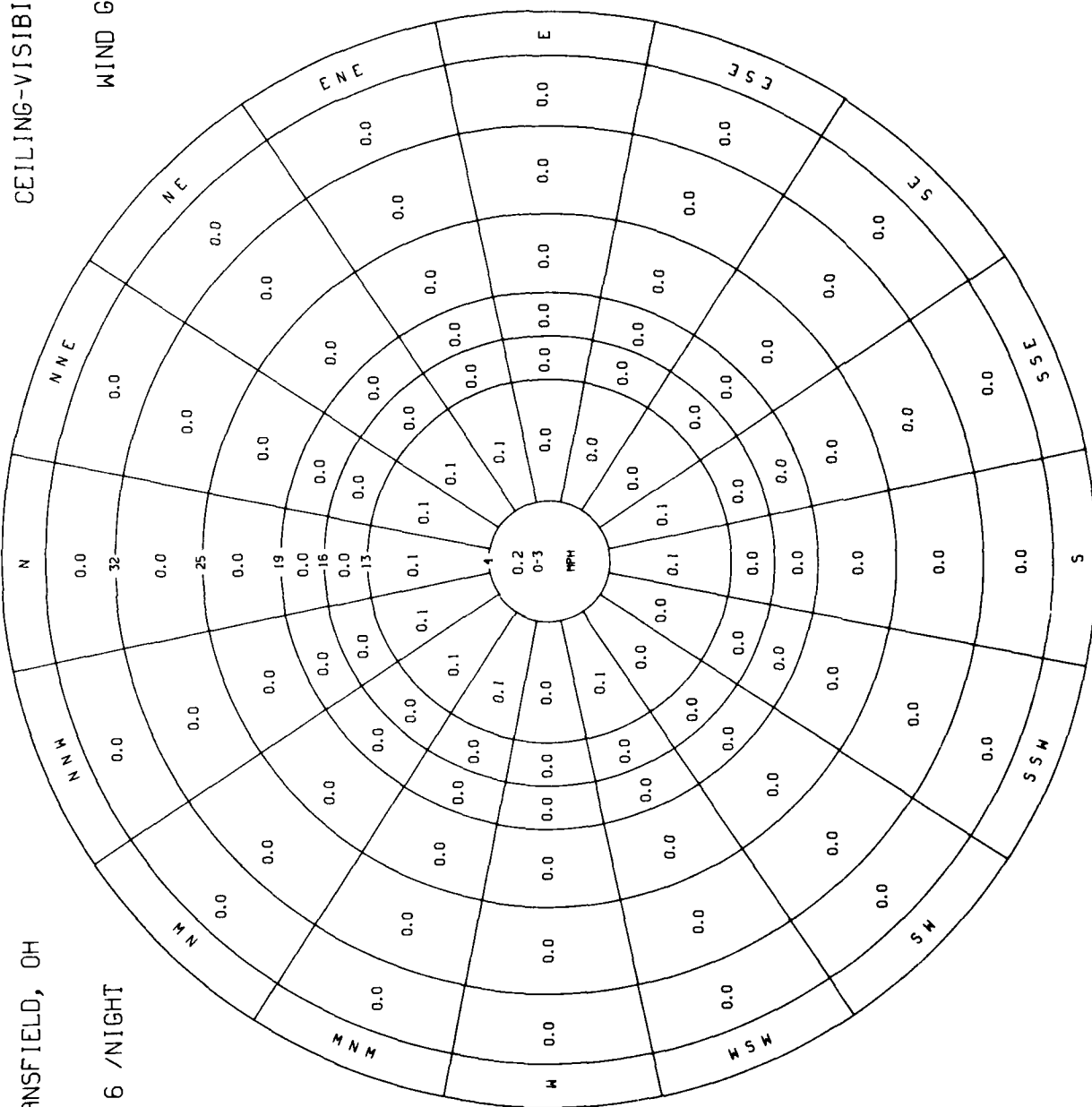
CLASS 6 / DAY

STATION NUMBER: 14891

NO. OBS.: 206

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	1.0	.1	11.2	.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.1 14.6
NNE	.0	.5	.1	9.2	.0	.0	.0	1.0	.0	.5	.0	.0	.0	.0	.1 11.2
NE	.0	1.0	.0	3.4	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0 4.9
ENE	.0	1.0	.0	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.9
E	.0	.5	.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.9
ESE	.0	.5	.0	1.9	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.9
SE	.0	.0	.0	4.4	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0 4.9
SSE	.0	.5	.0	4.9	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.1 7.3
S	.0	1.9	.0	4.9	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.1 7.8
SSW	.0	.0	.0	2.4	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0 2.9
SW	.0	.0	.0	1.0	.0	.5	.0	.0	.0	.0	.0	1.0	.0	.0	.0 2.4
WSW	.0	.5	.0	1.9	.0	.0	.0	.0	.0	.5	.0	.0	.0	1.0	.0 3.9
W	.0	.0	.0	3.9	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0 4.4
WNW	.0	1.0	.0	2.9	.0	.0	.0	.5	.0	.0	.0	.5	.0	1.0	.0 5.8
NW	.0	.0	.0	3.9	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0 4.4
NNW	.0	1.0	.1	7.8	.0	1.0	.0	.5	.0	.0	.0	.0	.0	.0	.1 10.2
CALM	.0	5.8													.0 5.8
TOTAL	.1	15.0	.5	68.9	.1	7.8	.0	2.4	.0	1.9	.0	1.9	.0	1.9	.7 100

CEILING-VISIBILITY WIND GRAPH



MFD MANSFIELD, OH
CLASS 6 / NIGHT

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MFD MANSFIELD, OH

PERIOD: 1949-1978

CLASS 6 / NIGHT

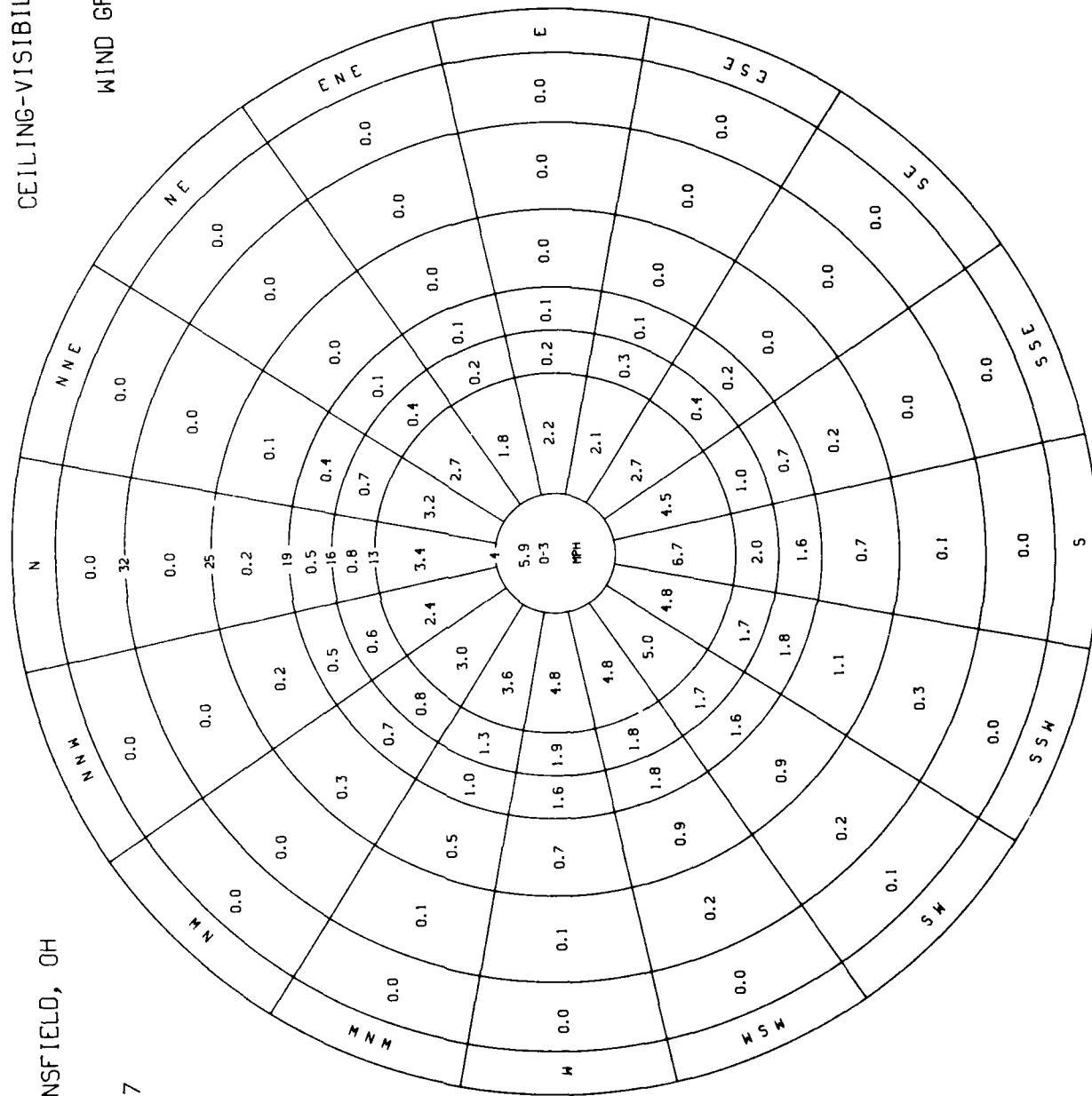
STATION NUMBER: 14891

NO. OBS.: 318

D I R	SPEED GROUPS (MPH)																AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL			
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D		
N	.0	.9	.1	8.8	.0	1.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.2	11.3	8.6
NNE	.0	.3	.1	5.7	.0	1.3	.0	.6	.0	.3	.0	.0	.0	.0	.0	.1	8.2	10.4
NE	.0	.9	.1	4.1	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	6.0	7.9
ENE	.0	.0	.1	5.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	6.0	8.6
E	.0	1.6	.0	2.8	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.1	5.0	7.2
ESE	.0	.3	.0	2.8	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5	7.7
SE	.0	.0	.0	3.1	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5	8.5
SSE	.0	.0	.1	5.7	.0	1.6	.0	.3	.0	.0	.0	.0	.0	.0	.0	.1	7.5	9.9
S	.0	.9	.1	4.1	.0	.6	.0	.3	.0	.0	.0	.0	.0	.0	.0	.1	6.0	8.4
SSW	.0	.0	.0	3.1	.0	.6	.0	.0	.0	.0	.0	.9	.0	.0	.0	.1	4.7	13.9
SW	.0	.0	.0	.9	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	1.6	11.2
WSW	.0	.6	.1	4.4	.0	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.1	5.7	9.1
W	.0	1.6	.0	2.5	.0	.0	.0	.0	.0	.6	.0	.0	.0	.9	.0	.1	5.7	12.4
WNW	.0	.3	.1	6.3	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	7.9	9.3
NW	.0	.3	.1	5.3	.0	.9	.0	.6	.0	.0	.0	.0	.0	.0	.0	.1	7.2	9.3
NNW	.0	.9	.1	4.4	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	5.7	7.9
CALM	.1	4.7														.1	4.7	
TOTAL	.2	13.5	.9	69.2	.1	10.7	.0	2.8	.0	1.6	.0	1.3	.0	.9	1.4	100		8.9

CEILING-VISIBILITY

WIND GRAPH

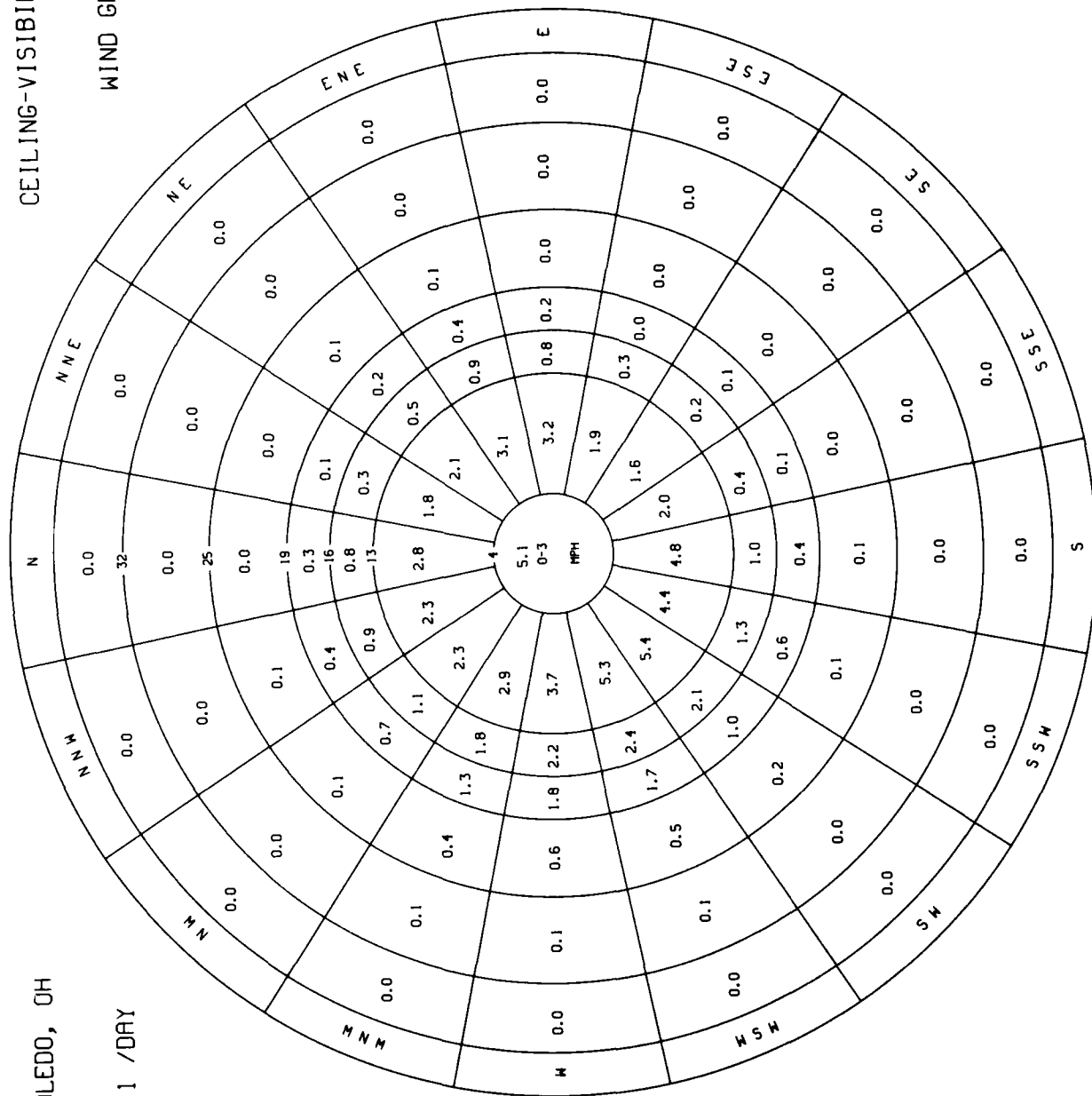


CEILING-VISIBILITY

WIND GRAPH

TOL TOLEDO, OH

CLASS 1 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1959-1978

STATION NAME: TOL TOLEDO, OH

CLASS 1 / DAY

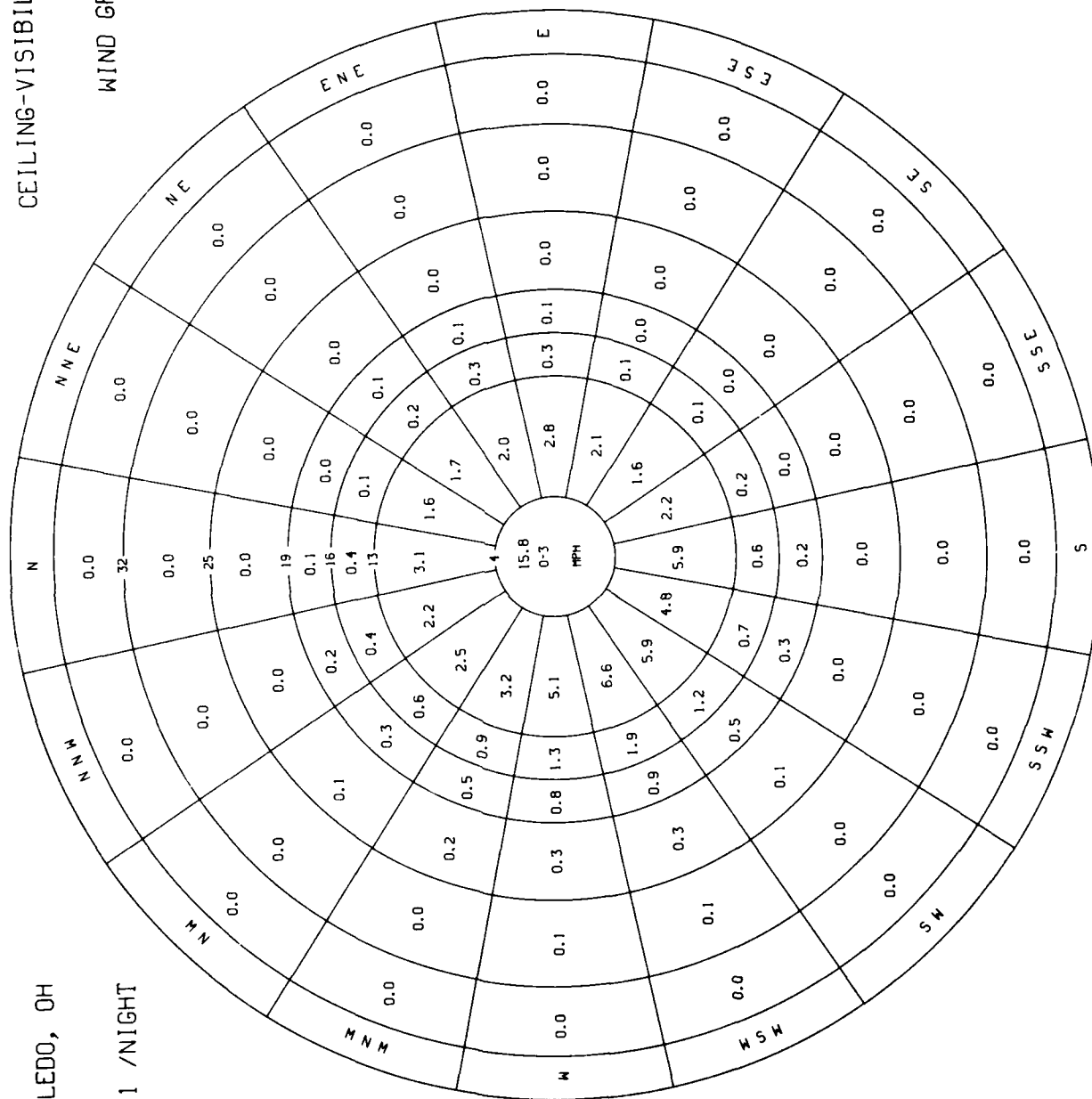
NO. OBS.: 26559

STATION NUMBER: 94830

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.3	.3	2.8	3.4	.8	1.0	.3	.4	.0	.1	.0	.0	.0	.0	4.3	5.2	9.7
NNE	.2	.2	1.8	2.1	.3	.3	.1	.1	.0	.0	.0	.0	.0	.0	2.3	2.7	8.7
NE	.2	.2	2.1	2.4	.5	.6	.2	.2	.1	.1	.0	.0	.0	.0	3.0	3.6	9.6
ENE	.2	.2	3.1	3.7	.9	1.0	.4	.5	.1	.1	.0	.0	.0	.0	4.6	5.5	10.2
E	.2	.3	3.2	3.8	.8	1.0	.2	.2	.0	.0	.0	.0	.0	.0	4.4	5.3	9.6
ESE	.2	.2	1.9	2.3	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	2.4	2.8	8.4
SE	.2	.2	1.6	2.0	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	2.1	2.5	8.2
SSE	.2	.2	2.0	2.3	.4	.5	.1	.2	.0	.0	.0	.0	.0	.0	2.8	3.3	9.1
S	.3	.4	4.8	5.7	1.0	1.2	.4	.4	.1	.1	.0	.0	.0	.0	6.6	7.9	9.2
SSW	.3	.4	4.4	5.3	1.3	1.6	.6	.8	.1	.1	.0	.0	.0	.0	6.8	8.1	10.2
SW	.3	.4	5.4	6.5	2.1	2.5	1.0	1.2	.2	.3	.0	.0	.0	.0	9.2	11.0	11.0
WSW	.3	.3	5.3	6.4	2.4	2.8	1.7	2.0	.5	.6	.1	.2	.0	.0	10.3	12.3	11.9
W	.2	.3	3.7	4.4	2.2	2.6	1.8	2.1	.6	.8	.1	.1	.0	.0	8.6	10.3	12.7
WNW	.2	.2	2.9	3.5	1.8	2.2	1.3	1.5	.4	.5	.1	.1	.0	.0	6.7	8.0	12.6
NW	.1	.1	2.3	2.7	1.1	1.3	.7	.8	.1	.2	.0	.0	.0	.0	4.3	5.2	11.7
NNW	.2	.2	2.3	2.7	.9	1.1	.4	.5	.1	.1	.0	.0	.0	.0	3.8	4.6	10.8
CALM	1.6	1.9													1.6	1.9	
TOTAL	5.1	6.1	49.6	59.1	17.1	20.3	9.3	11.1	2.4	2.9	.4	.5	.0	.0	83.8	100	10.5

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1959-1978

STATION NAME: TOL TOLEDO, OH

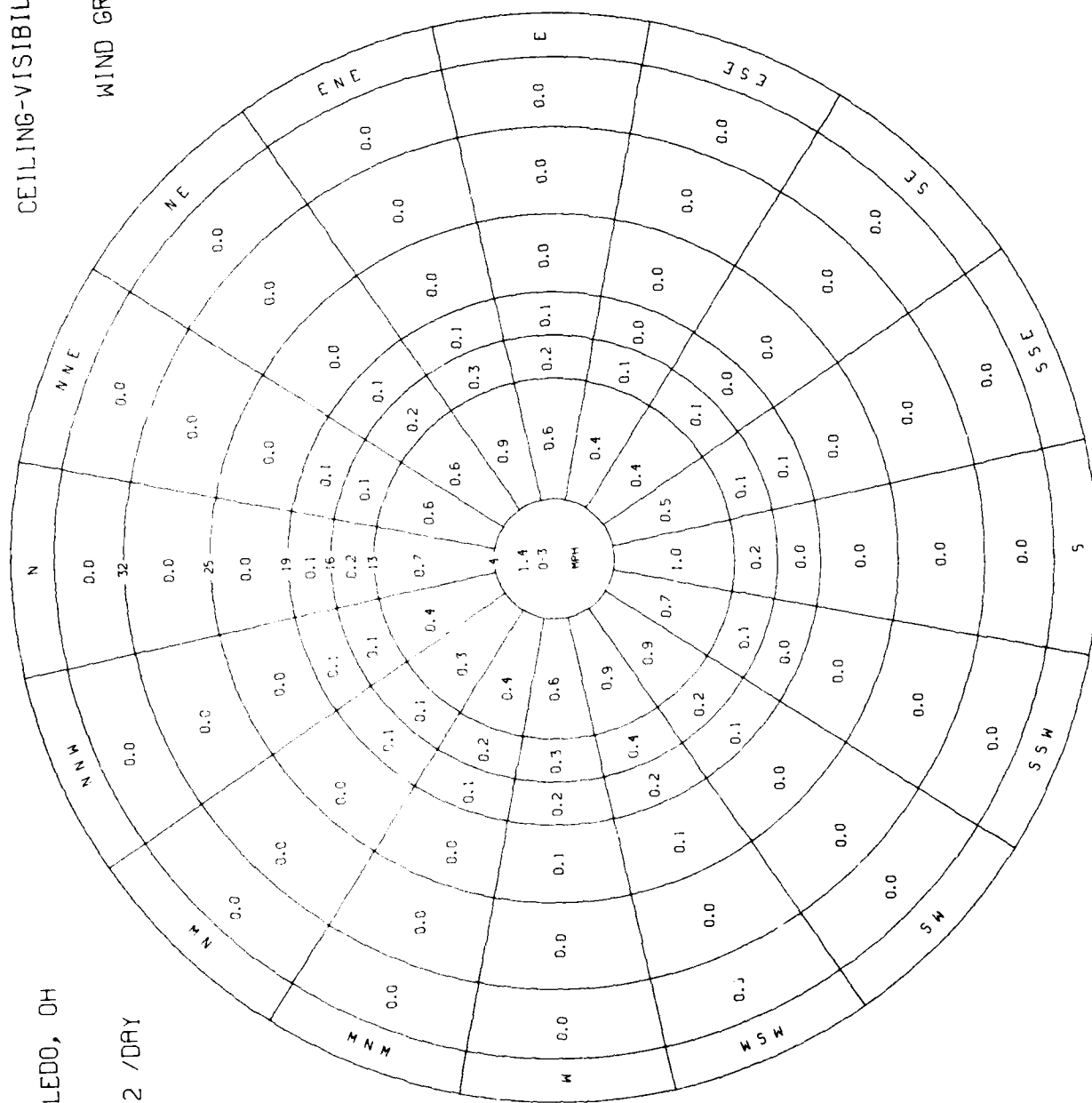
CLASS 1 / NIGHT

NO. OBS.: 22459

STATION NUMBER: 94830

O I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.5	.6	3.1	3.6	.4	.5	.1	.1	.0	.0	.0	.0	.0	.0	4.1	4.8	7.8
NNE	.3	.4	1.6	1.9	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	2.1	2.5	7.2
NE	.3	.4	1.7	2.0	.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	2.4	2.8	7.8
ENE	.5	.6	2.0	2.4	.3	.4	.1	.1	.0	.0	.0	.0	.0	.0	3.0	3.6	7.7
E	.6	.7	2.8	3.4	.3	.3	.1	.1	.0	.0	.0	.0	.0	.0	3.7	4.4	7.5
ESE	.5	.6	2.1	2.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	2.8	3.3	6.5
SE	.6	.7	1.6	1.9	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	2.3	2.8	6.1
SSE	.6	.7	2.2	2.7	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	3.1	3.7	6.8
S	.7	.9	5.9	7.1	.6	.7	.2	.2	.0	.0	.0	.0	.0	.0	7.5	8.9	7.8
SSW	.6	.7	4.8	5.7	.7	.9	.3	.4	.0	.0	.0	.0	.0	.0	6.5	7.7	8.3
SW	.7	.9	5.9	7.1	1.2	1.5	.5	.6	.1	.1	.0	.0	.0	.0	8.5	10.1	8.9
WSW	.7	.8	6.6	7.9	1.9	2.2	.9	1.1	.3	.4	.1	.1	.0	.0	10.5	12.4	9.9
W	.8	.9	5.1	6.0	1.3	1.6	.8	.9	.3	.4	.1	.1	.0	.0	8.4	10.0	10.0
WNW	.4	.5	3.2	3.9	.9	1.1	.5	.6	.2	.2	.0	.0	.0	.0	5.3	6.3	10.0
NW	.3	.4	2.5	2.9	.6	.7	.3	.4	.1	.1	.0	.0	.0	.0	3.7	4.4	9.5
NNW	.4	.4	2.2	2.6	.4	.5	.2	.2	.0	.0	.0	.0	.0	.0	3.2	3.8	8.6
CALM	7.2	8.6													7.2	8.6	
TOTAL	15.8	18.8	53.4	63.5	9.3	11.0	4.2	5.0	1.1	1.3	.3	.3	.0	.0	84.1	100	7.9

CEILING-VISIBILITY
WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1959-1978

STATION NAME: TOL TOLEDO, OH

CLASS 2 / DAY

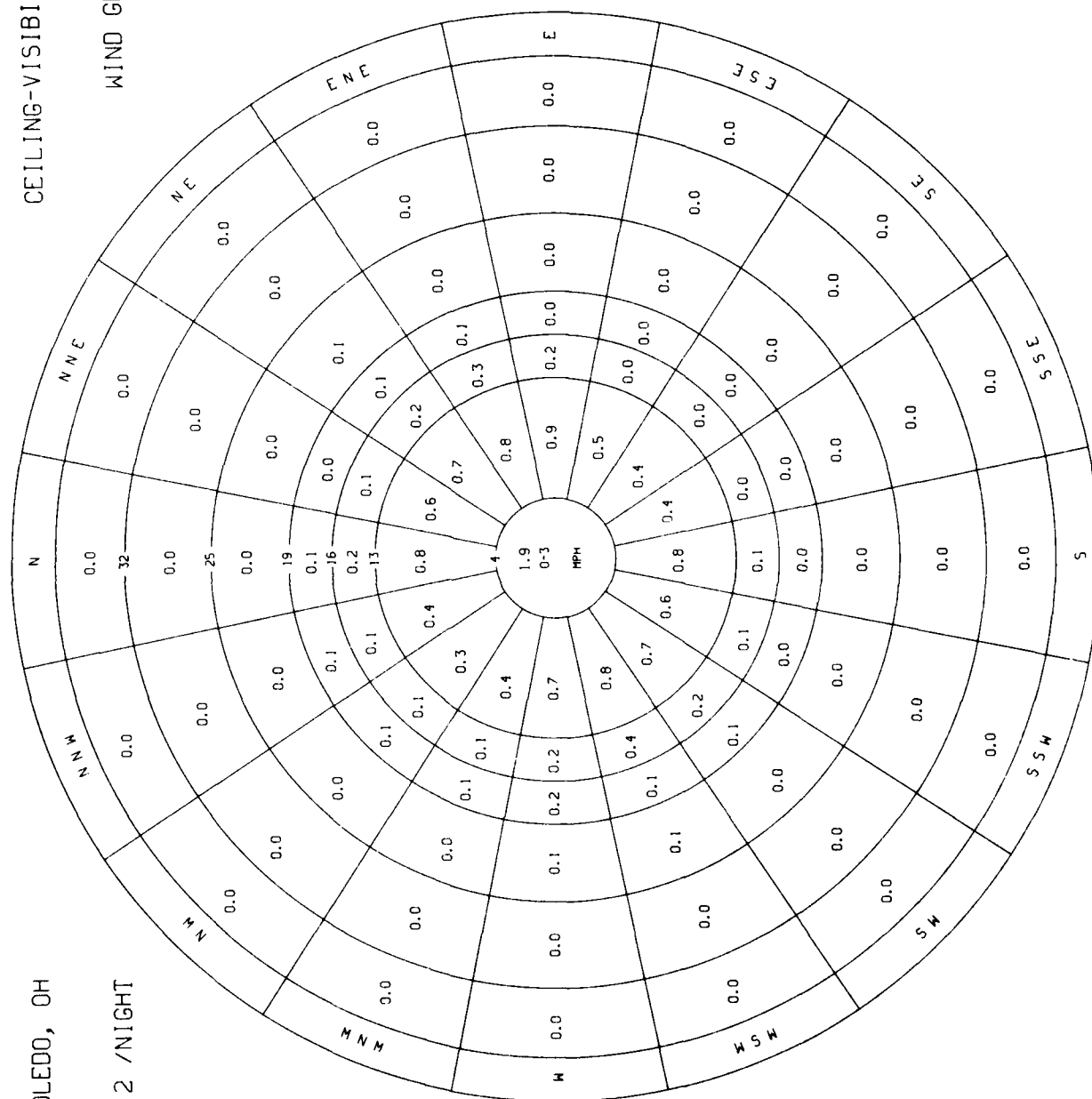
NO. OBS.: 5118

STATION NUMBER: 94830

D I R	SPEED GROUPS (MPH)																	AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL			
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D		
N	.1	.5	.7	4.3	.2	1.4	.1	.7	.0	.2	.0	.0	.0	.0	1.1	7.0	10.3	
NNE	.0	.3	.6	3.8	.1	.7	.1	.3	.0	.1	.0	.0	.0	.0	.8	5.2	9.3	
NE	.1	.3	.6	3.8	.2	1.2	.1	.8	.0	.2	.0	.0	.0	.0	1.0	6.4	10.7	
ENE	.1	.4	.9	5.5	.3	1.9	.1	.8	.0	.2	.0	.0	.0	.0	1.4	8.9	10.6	
E	.1	.4	.6	3.9	.2	1.4	.1	.4	.0	.1	.0	.0	.0	.0	1.0	6.2	10.0	
ESE	.0	.3	.4	2.5	.1	.5	.0	.1	.0	.0	.0	.0	.0	.0	.6	3.4	8.6	
SE	.1	.4	.4	2.6	.1	.4	.0	.1	.0	.0	.0	.0	.0	.0	.6	3.6	8.3	
SSE	.0	.2	.5	2.9	.1	.4	.1	.3	.0	.0	.0	.0	.0	.0	.6	3.8	8.9	
S	.1	.7	1.0	6.0	.2	1.0	.0	.3	.0	.0	.0	.0	.0	.0	1.3	7.8	8.5	
SSW	.0	.3	.7	4.4	.1	.8	.0	.2	.0	.1	.0	.0	.0	.0	.9	5.8	9.1	
SW	.1	.4	.9	5.7	.2	1.4	.1	.4	.0	.2	.0	.1	.0	.0	1.3	8.2	9.8	
WSW	.1	.4	.6	3.5	.3	1.8	.2	1.4	.1	.4	.0	.1	.0	.0	1.7	10.2	11.4	
W	.1	.4	.6	3.5	.3	1.8	.2	1.3	.1	.4	.0	.1	.0	.0	1.2	7.4	11.9	
WNW	.0	.2	.4	2.3	.2	1.3	.1	.6	.0	.2	.0	.1	.0	.0	.7	4.6	11.5	
NW	.0	.1	.3	2.1	.1	.8	.1	.5	.0	.2	.0	.0	.0	.0	.6	3.9	11.3	
NNW	.0	.2	.4	2.4	.1	.9	.1	.3	.0	.2	.0	.1	.0	.0	.7	4.0	10.8	
CALM	.5	3.3													.5	3.3		
TOTAL	1.4	8.7	9.9	61.4	2.9	18.2	1.4	8.6	.4	2.5	.1	.5	.0	.0	16.2	100	9.9	

TOL TOLEDO, OH

CLASS 2 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: TOL TOLEDO, OH

PERIOD: 1959-1978

CLASS 2 / NIGHT

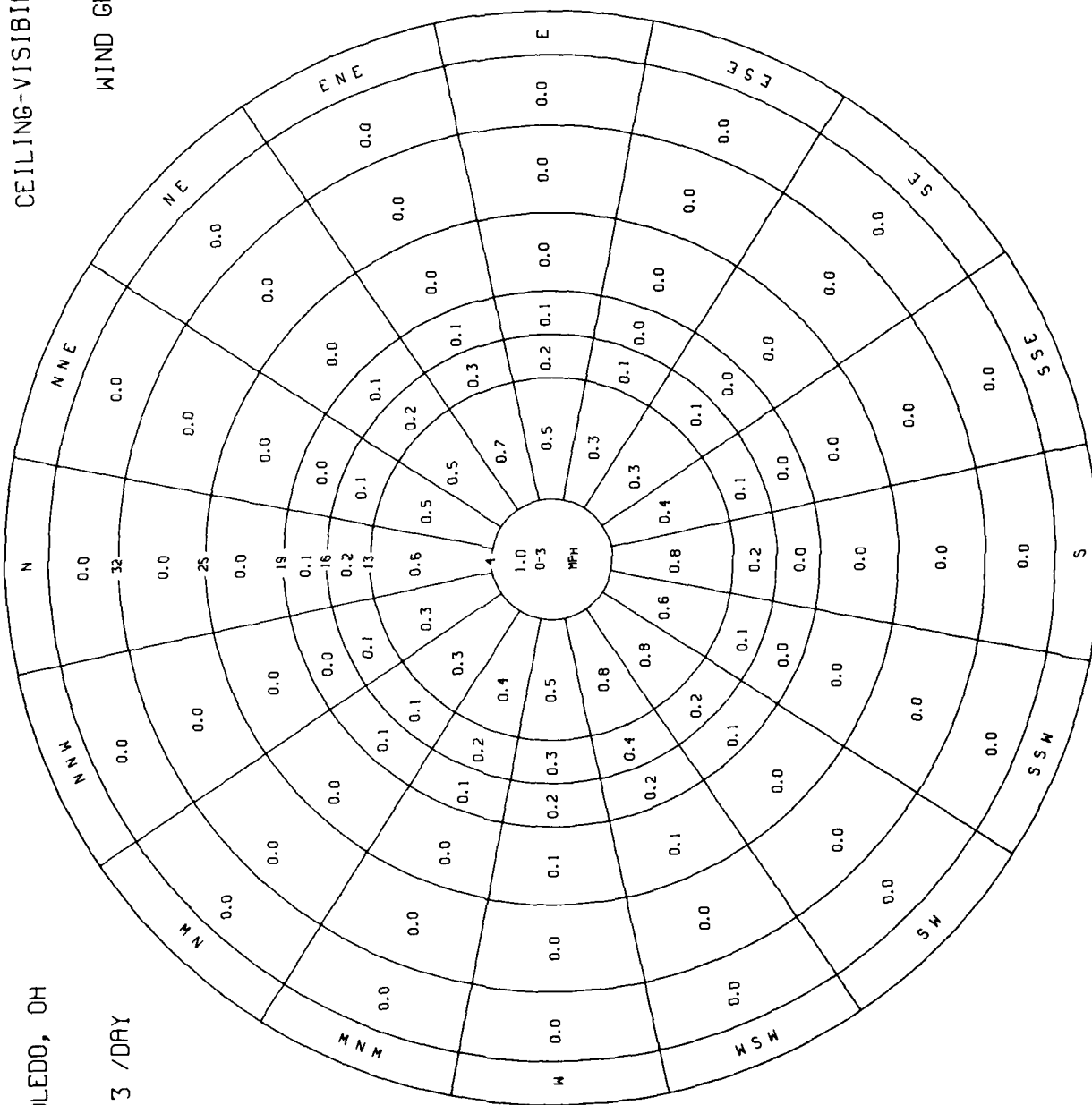
STATION NUMBER: 94830

NO. OBS.: 4256

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.1	.3	.8	4.9	.2	1.4	.1	.7	.0	.1	.0	.0	.0	.0	1.2 7.5 10.1
NNE	.1	.4	.6	3.7	.1	.8	.0	.1	.0	.1	.0	.0	.0	.0	.8 5.2 9.0
NE	.1	.4	.7	4.1	.2	1.3	.1	.9	.1	.4	.0	.1	.0	.0	1.1 7.1 11.0
ENE	.1	.6	.8	5.3	.3	1.7	.1	.8	.0	.2	.0	.0	.0	.0	1.4 8.6 10.2
E	.1	.9	.9	5.7	.2	1.3	.0	.3	.0	.0	.0	.0	.0	.0	1.3 8.2 8.6
ESE	.1	.5	.5	3.4	.0	.3	.0	.1	.0	.0	.0	.0	.0	.0	.7 4.3 7.7
SE	.1	.5	.4	2.5	.0	.2	.0	.1	.0	.0	.0	.0	.0	.0	.5 3.3 7.5
SSE	.1	.6	.4	2.6	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.6 3.6 7.7
S	.1	.7	.8	5.1	.1	.7	.0	.2	.0	.0	.0	.0	.0	.0	1.1 6.7 8.1
SSW	.1	.4	.6	3.7	.1	.7	.0	.3	.0	.0	.0	.0	.0	.0	.8 5.1 8.8
SW	.1	.4	.7	4.5	.2	1.5	.1	.4	.0	.1	.0	.0	.0	.0	1.1 7.1 10.0
WSW	.1	.4	.8	5.1	.4	2.3	.1	.9	.1	.4	.0	.0	.0	.0	1.5 9.2 11.0
W	.1	.5	.7	4.2	.2	1.4	.2	1.1	.1	.5	.0	.0	.0	.0	1.2 7.8 11.5
WNW	.1	.3	.4	2.4	.1	.8	.1	.6	.0	.2	.0	.0	.0	.0	.7 4.4 10.8
NW	.0	.2	.3	2.0	.1	.7	.1	.4	.0	.1	.0	.0	.0	.0	.6 3.5 10.5
NNW	.0	.2	.4	2.3	.1	.8	.1	.4	.0	.1	.0	.0	.0	.0	.6 3.8 10.8
CALM	.7	4.7													.7 4.7
TOTAL	1.9	12.2	9.8	61.5	2.6	16.0	1.2	7.5	.4	2.5	.0	.3	.0	.0	15.9 100 9.3

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1959-1978

STATION NAME: TOL TOLEDO, OH

CLASS 3 / DAY

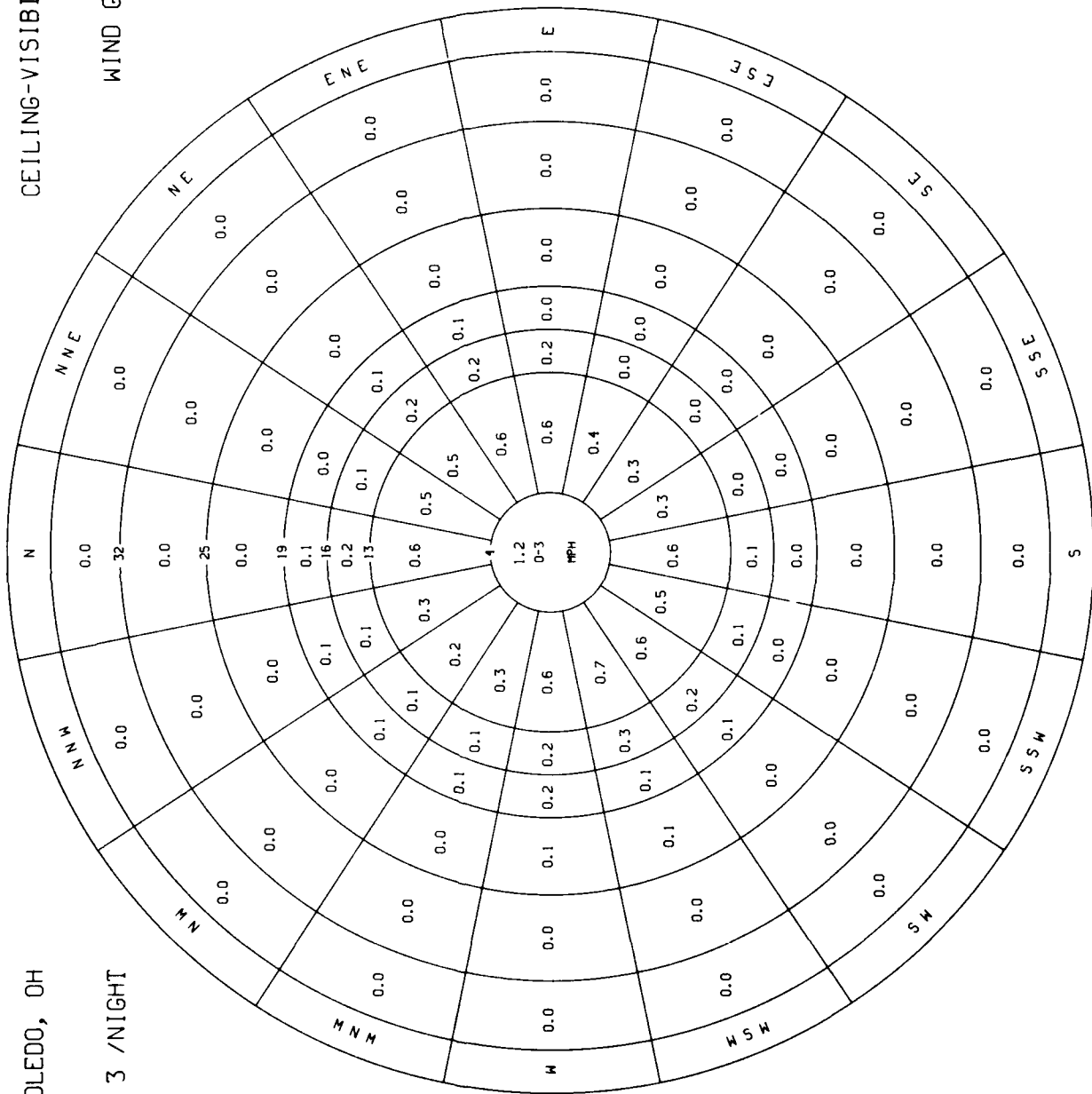
NO. OBS.: 4269

STATION NUMBER: 94830

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.3	.6	4.1	.2	1.5	.1	.7	.0	.1	.0	.0	.0	.0	.9 6.7 10.6
NNE	.0	.2	.5	3.9	.1	.8	.0	.2	.0	.1	.0	.0	.0	.0	.7 5.2 9.4
NNE	.0	.3	.5	3.4	.2	1.2	.1	.8	.0	.1	.0	.0	.0	.0	.8 5.9 10.8
ENE	.0	.3	.7	5.2	.3	1.9	.1	.8	.0	.2	.0	.0	.0	.0	1.1 8.4 10.8
E	.0	.2	.5	3.4	.2	1.5	.1	.4	.0	.1	.0	.0	.0	.0	.8 5.7 10.6
ESE	.0	.2	.3	2.3	.1	.6	.0	.1	.0	.0	.0	.0	.0	.0	.4 3.2 8.9
SE	.1	.4	.3	2.4	.1	.5	.0	.2	.0	.0	.0	.0	.0	.0	.5 3.5 8.7
SSE	.0	.2	.4	2.6	.1	.4	.0	.3	.0	.0	.0	.0	.0	.0	.5 3.6 9.2
S	.1	.6	.8	6.0	.2	1.1	.0	.3	.0	.0	.0	.0	.0	.0	1.1 8.1 8.8
SSW	.0	.3	.6	4.6	.1	.9	.0	.3	.0	.0	.0	.0	.0	.0	.8 6.2 9.2
SW	.0	.4	.8	5.9	.2	1.6	.1	.5	.0	.2	.0	.1	.0	.0	1.2 8.6 9.9
WSW	.0	.4	.8	6.1	.4	2.6	.2	1.6	.1	.5	.0	.1	.0	.0	1.5 11.3 11.5
W	.0	.4	.5	3.7	.3	2.0	.2	1.5	.1	.5	.0	.0	.0	.0	1.1 8.0 12.1
NNW	.0	.1	.4	2.7	.2	1.5	.1	.6	.0	.1	.0	.1	.0	.0	.7 5.1 11.7
NW	.0	.1	.3	2.0	.1	1.0	.1	.6	.0	.2	.0	.0	.0	.0	.5 3.9 11.6
NNW	.0	.1	.3	2.3	.1	1.0	.0	.4	.0	.2	.0	.1	.0	.0	.6 4.1 11.3
CALM	.4	2.8													.4 2.8
TOTAL	1.0	7.2	8.2	60.8	2.7	20.0	1.2	9.1	.3	2.4	.1	.4	.0	.0	13.5 100 10.1

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1959-1978

STATION NAME: TOL TOLEDO, OH

CLASS 3 / NIGHT

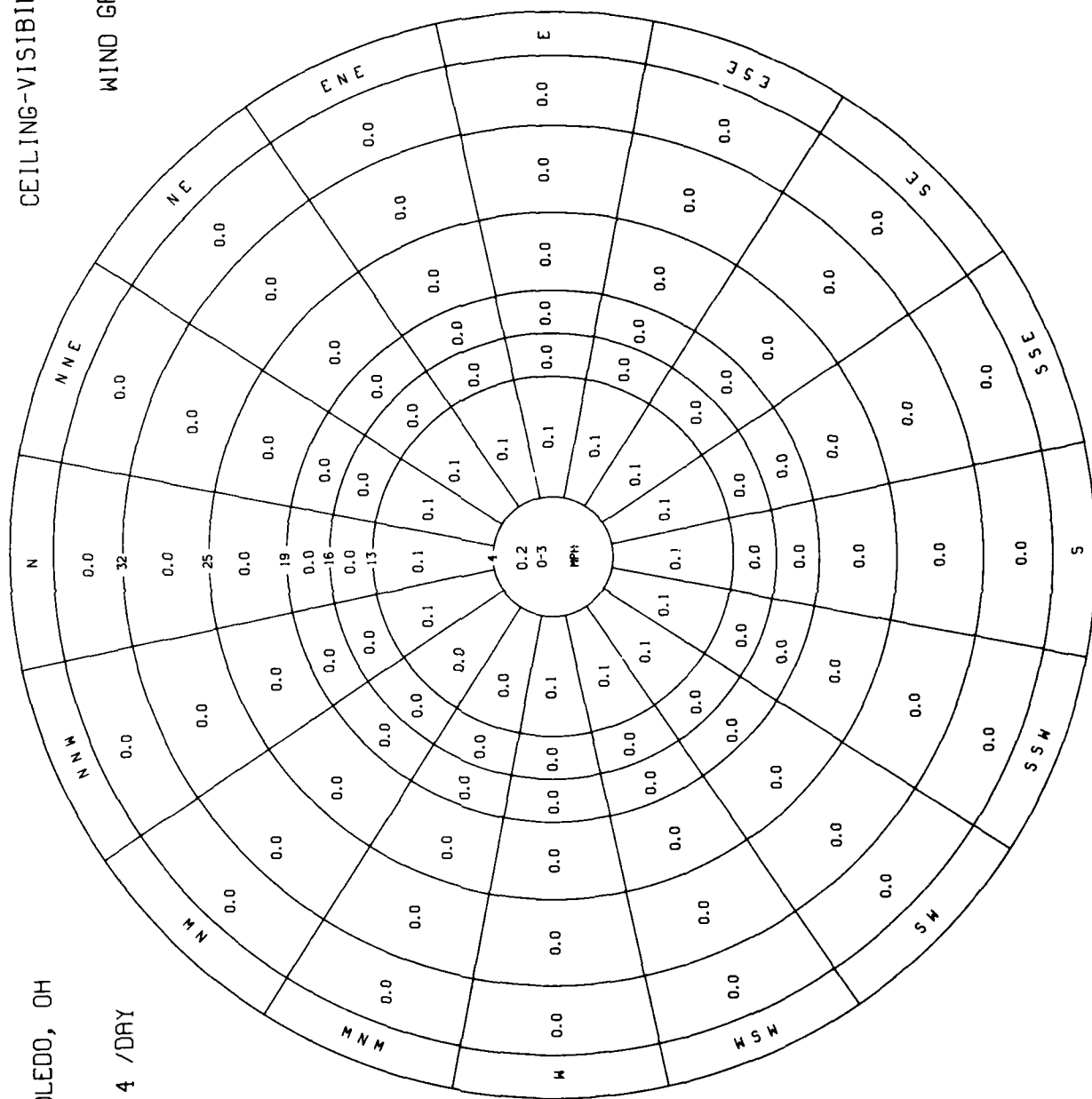
NO. OBS.: 3308

STATION NUMBER: 94830

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.2	.6	4.7	.2	1.6	.1	.9	.0	.2	.0	.0	.0	.0	.9 7.5 10.7
NNE	.0	.4	.5	3.8	.1	.8	.0	.2	.0	.1	.0	.0	.0	.0	.7 5.3 9.2
NNE	.0	.3	.5	4.0	.2	1.4	.1	1.0	.0	.4	.0	.1	.0	.0	.9 7.2 11.4
ENE	.0	.4	.6	5.0	.2	1.7	.1	.8	.0	.2	.0	.0	.0	.0	1.0 8.1 10.4
E	.1	.6	.6	4.8	.2	1.3	.0	.3	.0	.0	.0	.0	.0	.0	.9 7.0 9.1
ESE	.0	.4	.4	3.0	.0	.3	.0	.1	.0	.0	.0	.0	.0	.0	.5 3.8 8.1
SE	.0	.2	.3	2.1	.0	.2	.0	.1	.0	.0	.0	.0	.0	.0	.3 2.8 8.1
SSE	.0	.4	.3	2.2	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.4 3.1 8.2
S	.1	.7	.6	5.2	.1	.7	.0	.2	.0	.0	.0	.0	.0	.0	.8 6.8 8.4
SSW	.1	.4	.5	3.7	.1	.9	.0	.3	.0	.1	.0	.0	.0	.0	.7 5.5 9.2
SW	.0	.4	.6	4.9	.2	1.7	.1	.5	.0	.1	.0	.0	.0	.0	.9 7.6 10.2
WSW	.0	.4	.7	5.4	.3	2.7	.1	1.1	.1	.5	.0	.0	.0	.0	1.2 10.1 11.4
W	.1	.6	.6	4.8	.2	1.6	.2	1.4	.1	.6	.0	.0	.0	.0	1.1 9.0 11.5
WNW	.0	.3	.3	2.6	.1	1.0	.1	.7	.0	.2	.0	.1	.0	.0	.6 4.8 11.3
NW	.0	.1	.2	1.9	.1	.8	.1	.5	.0	.1	.0	.0	.0	.0	.4 3.5 11.0
NNW	.0	.2	.3	2.3	.1	1.0	.1	.5	.0	.2	.0	.0	.0	.0	.5 4.1 11.2
CALM	.5	3.8													.5 3.8
TOTAL	1.2	9.7	7.5	60.5	2.2	18.1	1.1	8.7	.3	2.7	.0	.2	.0	.0	12.4 100 9.8

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: TOL TOLEDO, OH

PERIOD: 1959-1978

CLASS 4 / DAY

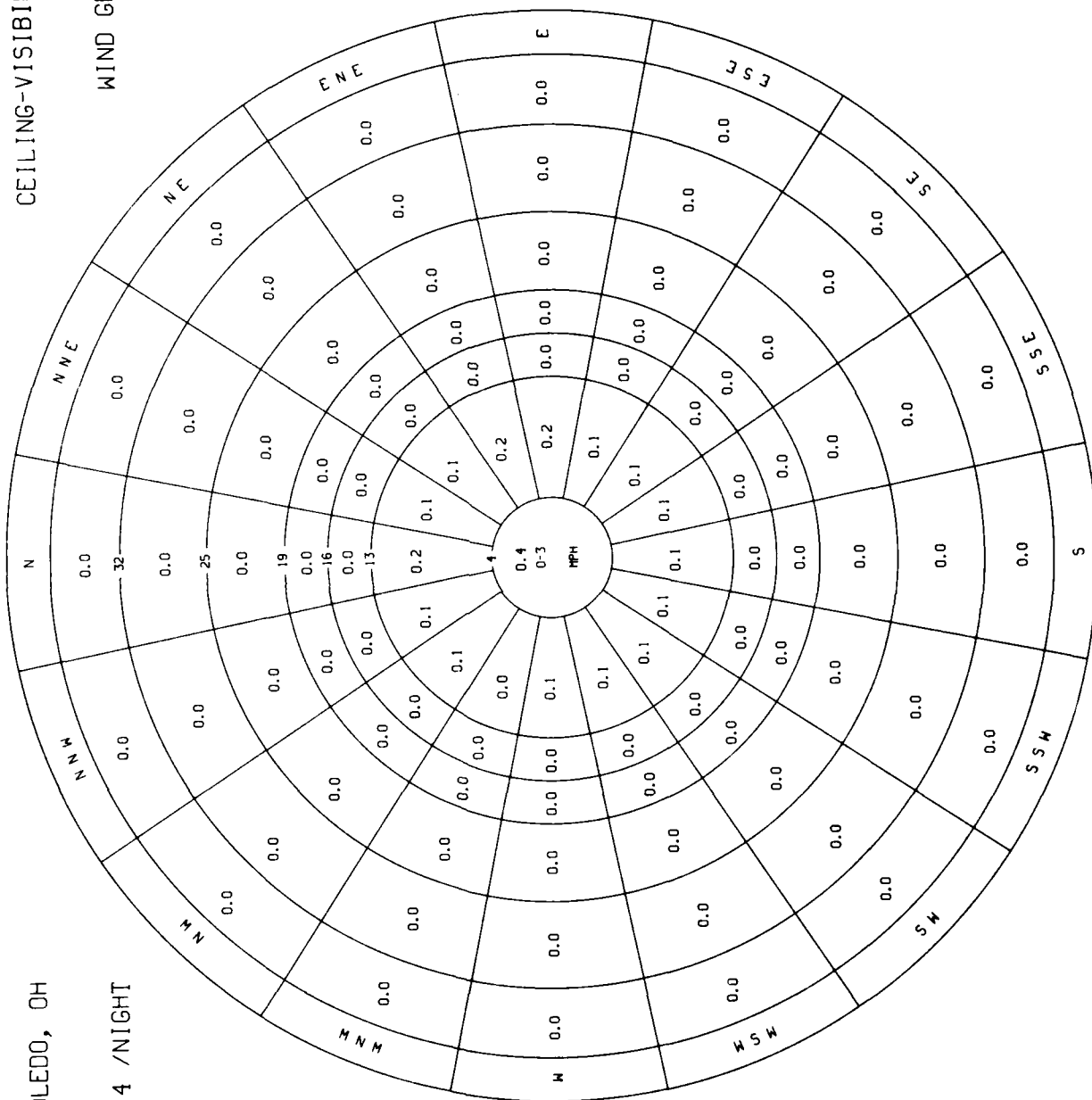
STATION NUMBER: 94830

NO. OBS.: 595

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.8	.1	4.9	.0	.8	.0	.8	.0	.5	.0	.0	.0	.0	.1 7.9
NNE	.0	.3	.1	3.5	.0	.7	.0	.7	.0	.0	.0	.0	.0	.0	.1 5.2
NE	.0	.2	.1	5.9	.0	1.5	.0	1.0	.0	.5	.0	.3	.0	.0	.2 9.4
ENE	.0	1.2	.1	7.4	.0	2.5	.0	1.5	.0	.2	.0	.0	.0	.0	.2 12.8
E	.0	.7	.1	6.6	.0	1.2	.0	.5	.0	.2	.0	.0	.0	.0	.2 9.1
ESE	.0	.3	.1	4.4	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.1 5.0
SE	.0	1.0	.1	3.4	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.1 4.7
SSE	.0	.0	.1	4.7	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.1 5.4
S	.0	.2	.1	5.5	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.1 5.9
SSW	.0	.5	.1	2.9	.0	.5	.0	.0	.0	.2	.0	.0	.0	.0	.1 4.0
SW	.0	.7	.1	4.0	.0	.8	.0	.5	.0	.0	.0	.0	.0	.0	.1 6.1
WSW	.0	.3	.1	2.9	.0	.7	.0	.8	.0	.2	.0	.0	.0	.0	.1 4.9
W	.0	.3	.1	2.7	.0	1.2	.0	.5	.0	.5	.0	.0	.0	.0	.1 5.2
WNW	.0	.3	.0	.7	.0	.5	.0	.3	.0	.2	.0	.0	.0	.0	.0 2.0
NW	.0	.2	.0	2.5	.0	.2	.0	.2	.0	.2	.0	.2	.0	.0	.1 3.4
NNW	.0	.5	.1	2.9	.0	.3	.0	.2	.0	.2	.0	.0	.0	.0	.1 4.0
CALM	.1	5.0													.1 5.0
TOTAL	.2	12.6	1.2	64.7	.2	11.9	.1	7.4	.1	2.9	.0	.5	.0	.0	1.9 100 8.9

CEILING-VISIBILITY

WIND GRAPH



TOL TOLEDO, OH

CLASS 4 / NIGHT

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1959-1978

STATION NAME: TOL TOLEDO, OH

CLASS 4 / NIGHT

NO. OBS.: 650

STATION NUMBER: 94830

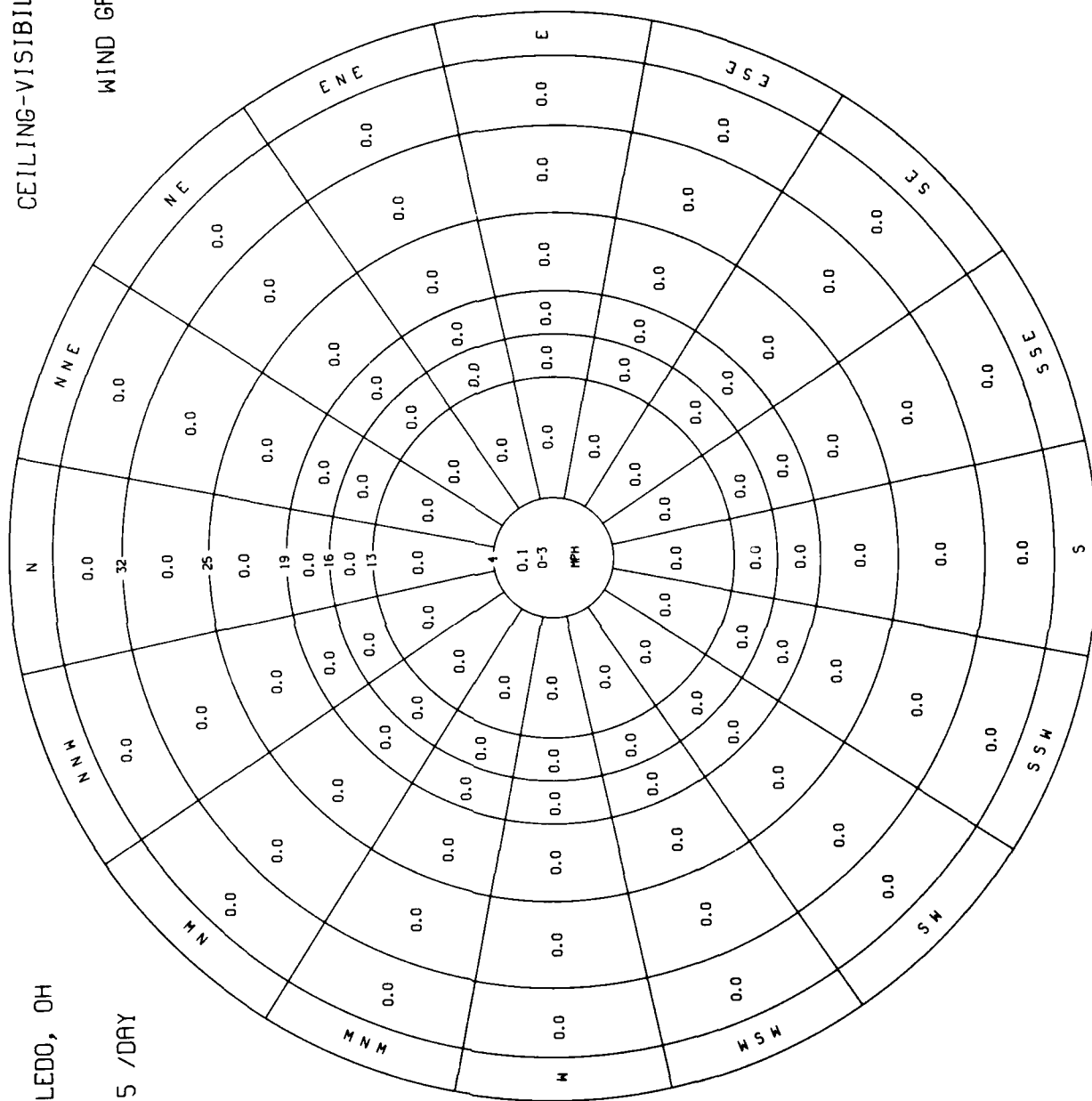
D I R	SPEED GROUPS (MPH)																AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL			
															A	B		C
	A	B	A	B	A	B	A	B	A	B	A	B	C	D				
N	.0	.5	.2	6.3	.0	1.1	.0	.3	.0	.0	.0	.0	.0	.0	.0	.2	8.2	8.5
NNE	.0	.8	.1	3.5	.0	1.1	.0	.2	.0	.2	.0	.0	.0	.0	.0	.1	5.7	8.9
NE	.0	.5	.1	4.5	.0	1.1	.0	.8	.0	.6	.0	.0	.0	.0	.0	.2	7.4	10.5
ENE	.0	.9	.2	7.2	.0	2.0	.0	1.2	.0	.2	.0	.2	.0	.0	.0	.3	11.7	10.4
E	.0	1.1	.2	8.3	.0	1.7	.0	.2	.0	.0	.0	.0	.0	.0	.0	.3	11.2	8.6
ESE	.0	.5	.1	4.6	.0	.5	.0	.2	.0	.0	.0	.0	.0	.0	.0	.1	5.7	8.0
SE	.0	1.4	.1	3.2	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	4.9	6.2
SSE	.0	.8	.1	3.7	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.1	4.6	6.9
S	.0	.3	.1	5.1	.0	.6	.0	.2	.0	.0	.0	.0	.0	.0	.0	.1	6.2	8.2
SSW	.0	.2	.1	3.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	3.7	6.4
SW	.0	.6	.1	3.2	.0	1.1	.0	.3	.0	.2	.0	.0	.0	.0	.0	.1	5.4	9.7
WSW	.0	.6	.1	4.0	.0	1.1	.0	.2	.0	.3	.0	.0	.0	.0	.0	.1	6.2	9.8
W	.0	.3	.1	2.5	.0	.8	.0	.3	.0	.3	.0	.0	.0	.0	.0	.1	4.2	10.5
WNW	.0	.3	.0	2.0	.0	.2	.0	.2	.0	.3	.0	.0	.0	.0	.0	.1	2.9	9.6
NW	.0	.3	.1	2.5	.0	.2	.0	.5	.0	.0	.0	.0	.0	.0	.0	.1	3.4	9.0
NNW	.0	.2	.1	2.5	.0	.2	.0	.3	.0	.0	.0	.0	.0	.0	.0	.1	3.1	9.0
CALM	.1	5.7														.1	5.7	
TOTAL	.4	14.8	1.6	66.6	.3	11.7	.1	4.8	.0	2.0	.0	.2	.0	.0	.0	2.4	100	8.4

CEILING-VISIBILITY

WIND GRAPH

TOL TOLEDO, OH

CLASS 5 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1959-1978

STATION NAME: TOL TOLEDO, OH

CLASS 5 / DAY

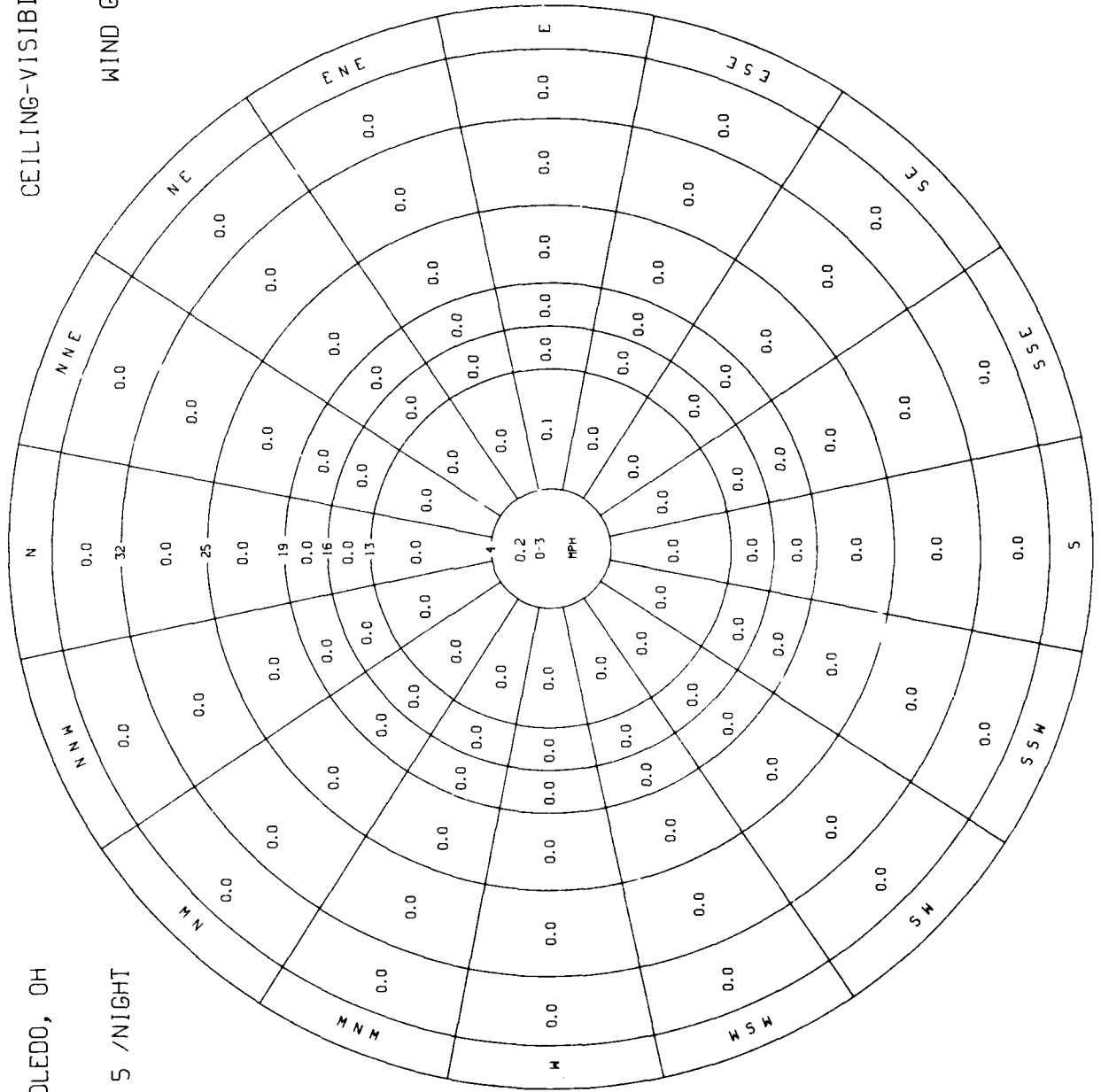
NO. OBS.: 136

STATION NUMBER: 94830

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	1.5	.0	8.8	.0	.0	.0	.7	.0	.7	.0	.7	.0	.0	.1 12.5
NNE	.0	.7	.0	2.9	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0 5.1
NE	.0	1.5	.0	5.9	.0	.7	.0	1.5	.0	.7	.0	.0	.0	.0	.0 10.3
ENE	.0	2.2	.0	6.6	.0	.7	.0	.0	.0	.7	.0	.0	.0	.0	.0 10.3
E	.0	1.5	.0	6.6	.0	.7	.0	.7	.0	.0	.0	.0	.0	.0	.0 9.6
ESE	.0	.7	.0	3.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 4.4
SE	.0	.0	.0	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.9
SSE	.0	.7	.0	2.9	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0 4.4
S	.0	.0	.0	3.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.7
SSW	.0	.0	.0	5.9	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0 6.6
SW	.0	.0	.0	5.1	.0	.7	.0	.0	.0	.0	.0	1.5	.0	.0	.0 7.4
WSW	.0	.0	.0	5.1	.0	.7	.0	.0	.0	.7	.0	.0	.0	.0	.0 6.6
W	.0	.0	.0	2.2	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0 2.9
WNW	.0	.0	.0	.7	.0	.7	.0	.0	.0	.7	.0	.0	.0	.0	.0 2.2
NW	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0 2.9
NNW	.0	.0	.0	4.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 4.4
CALM	.0	3.7													.0 3.7
TOTAL	.1	12.5	.3	69.9	.0	5.1	.0	5.9	.0	4.4	.0	2.2	.0	.0	.4 100
															8.6

CEILING-VISIBILITY

WIND GRAPH



TOL TOLEDO, OH

CLASS 5 /NIGHT

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: TOL TOLEDO, OH

PERIOD: 1959-1978

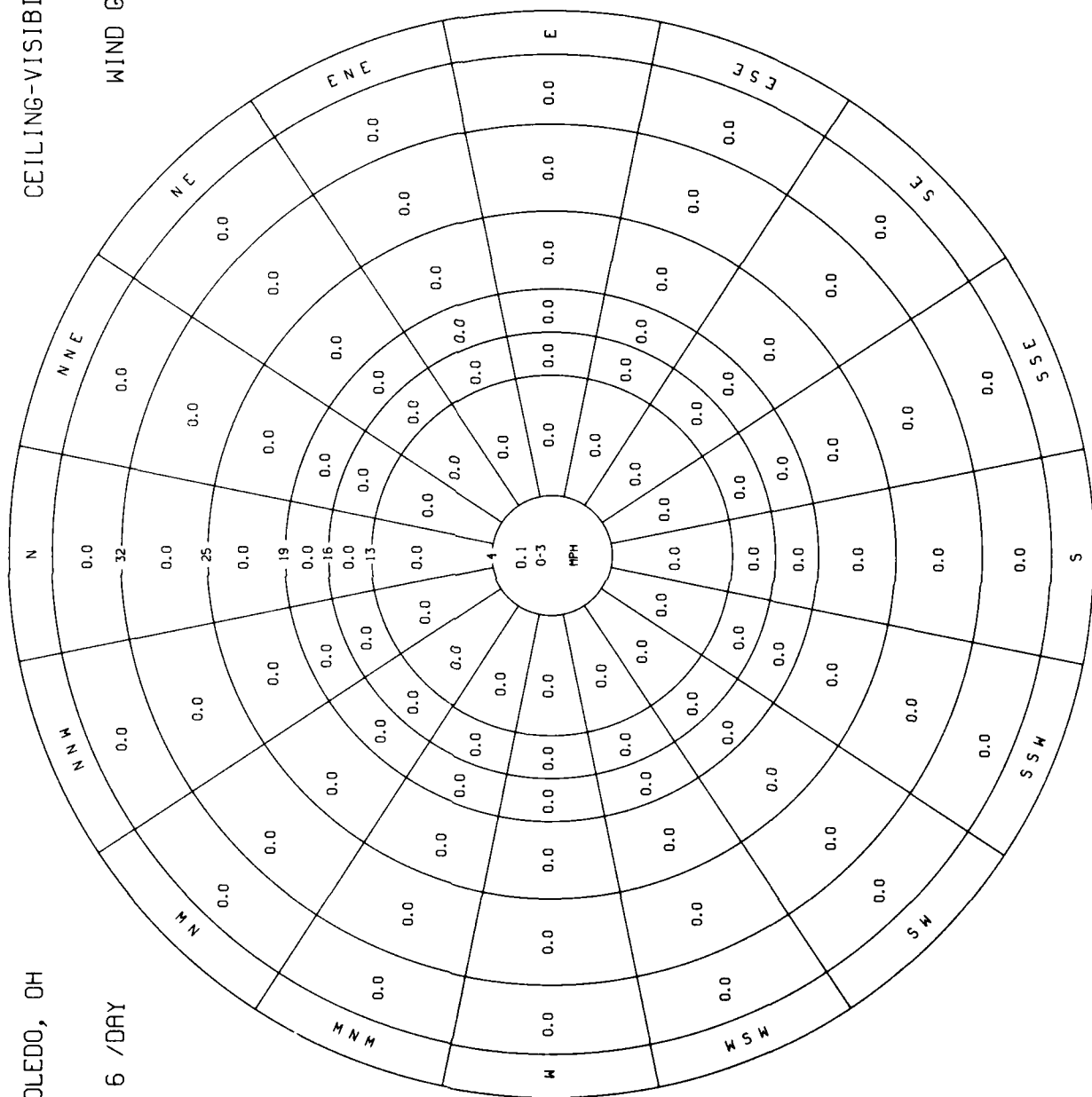
CLASS 5 / NIGHT

STATION NUMBER: 94830

NO. OBS.: 181

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B		C	D
N	.0	1.7	.0	4.4	.0	.0	.0	.0	.0	.6	.0	.6	.0	.0	.0	7.2	8.7
NNE	.0	.0	.0	4.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.4	6.4
NE	.0	1.1	.0	4.4	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	6.1	7.9
ENE	.0	1.7	.0	4.4	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.2	7.2
E	.0	2.8	.1	12.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	15.5	6.8
ESE	.0	1.7	.0	4.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.1	4.9
SE	.0	.6	.0	5.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.1	6.8
SSE	.0	2.2	.0	5.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	8.3	6.8
S	.0	1.7	.0	5.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.2	5.5
SSW	.0	.6	.0	3.3	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.4	7.7
SW	.0	1.1	.0	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.9	6.7
WSW	.0	1.7	.0	5.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.2	6.5
W	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	2.8	10.6
WNW	.0	1.7	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8	3.6
NW	.0	.6	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	5.5
NNW	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	7.0
CALM	.0	6.6													.0	6.6	
TOTAL	.2	25.4	.5	69.6	.0	2.8	.0	.0	.0	1.7	.0	.6	.0	.0	.7	100	6.4

CEILING-VISIBILITY
WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: TOL TOLEDO, OH

PERIOD: 1959-1978

CLASS 6 / DAY

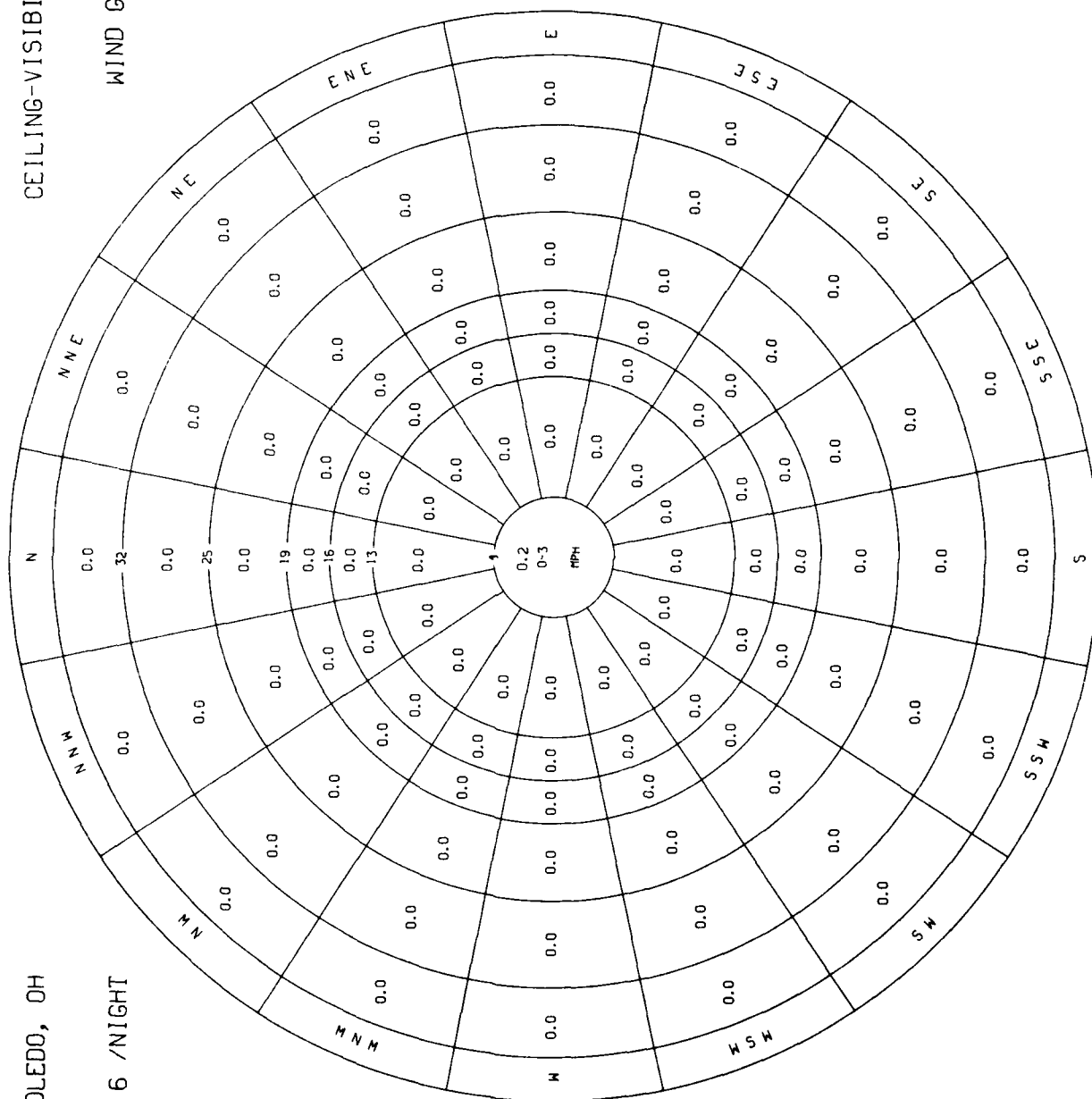
STATION NUMBER: 94830

NO. OBS.: 118

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.0	3.4	.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.9	4.9
NNE	.0	1.7	.0	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.1	5.0
NE	.0	.0	.0	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.4	7.0
ENE	.0	.0	.0	5.9	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.8	6.9
E	.0	4.2	.0	4.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.5	4.8
ESE	.0	1.7	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.4	4.2
SE	.0	.0	.0	4.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.2	5.4
SSE	.0	.8	.0	5.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.9	7.1
S	.0	5.1	.0	8.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13.6	4.8
SSW	.0	.0	.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	7.0
SW	.0	.0	.0	5.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.9	5.7
WSW	.0	.8	.0	2.5	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.0	4.2	10.2
W	.0	1.7	.0	2.5	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.0	5.1	8.5
WNW	.0	2.5	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.4	4.0
NW	.0	1.7	.0	4.2	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	6.8	6.9
NNW	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	5.5
CALM	.1	13.6													.1	13.6	
TOTAL	.1	37.3	.2	59.3	.0	.8	.0	.8	.0	.0	.0	1.7	.0	.0	.4	100	5.2

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: TOL TOLEDO, OH

PERIOD: 1959-1978

CLASS 6 / NIGHT

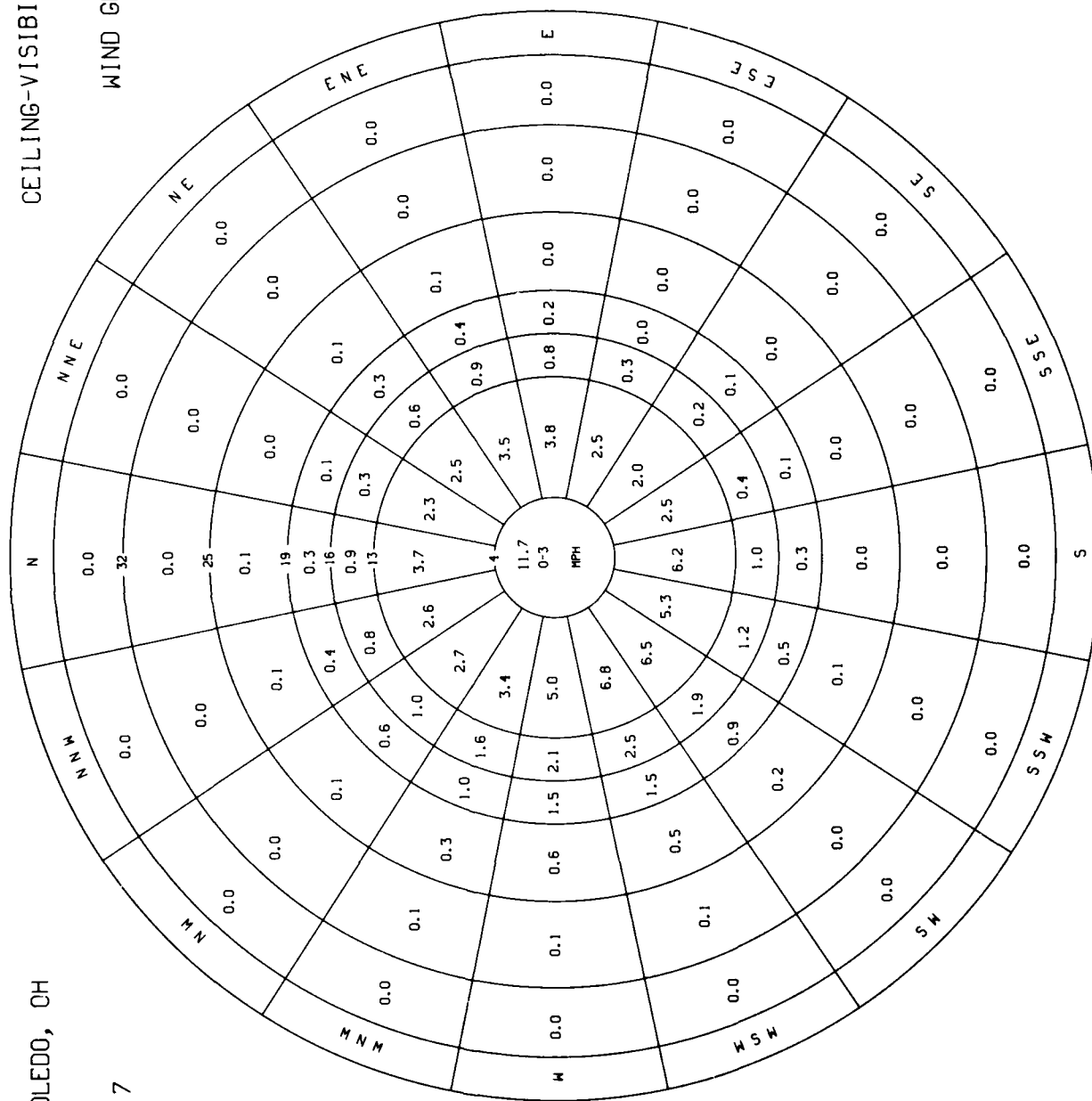
STATION NUMBER: 94830

NO. OBS.: 117

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.0	.9	.0	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.3	5.2
NNE	.0	.9	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	5.0
NE	.0	1.7	.0	4.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.0	5.3
ENE	.0	3.4	.0	3.4	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.7	5.2
E	.0	6.8	.0	4.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.1	4.3
ESE	.0	3.4	.0	4.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.7	4.4
SE	.0	1.7	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.3	6.0
SSE	.0	1.7	.0	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.1	4.8
S	.0	.9	.0	4.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.1	5.5
SSW	.0	.0	.0	4.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.3	5.4
SW	.0	.9	.0	4.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.1	6.2
WSW	.0	.0	.0	2.6	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	3.4	12.0
W	.0	.9	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	3.5
WNW	.0	.0	.0	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.4	7.0
NW	.0	1.7	.0	3.4	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	6.0	8.7
NNW	.0	.9	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	3.5
CALM	.1	21.4								.9	.0	.9	.0	.0	.1	21.4	
TOTAL	.2	47.0	.2	50.4	.0	.9	.0	.0	.0	.9	.0	.9	.0	.0	.4	100	4.5

CEILING-VISIBILITY

WIND GRAPH



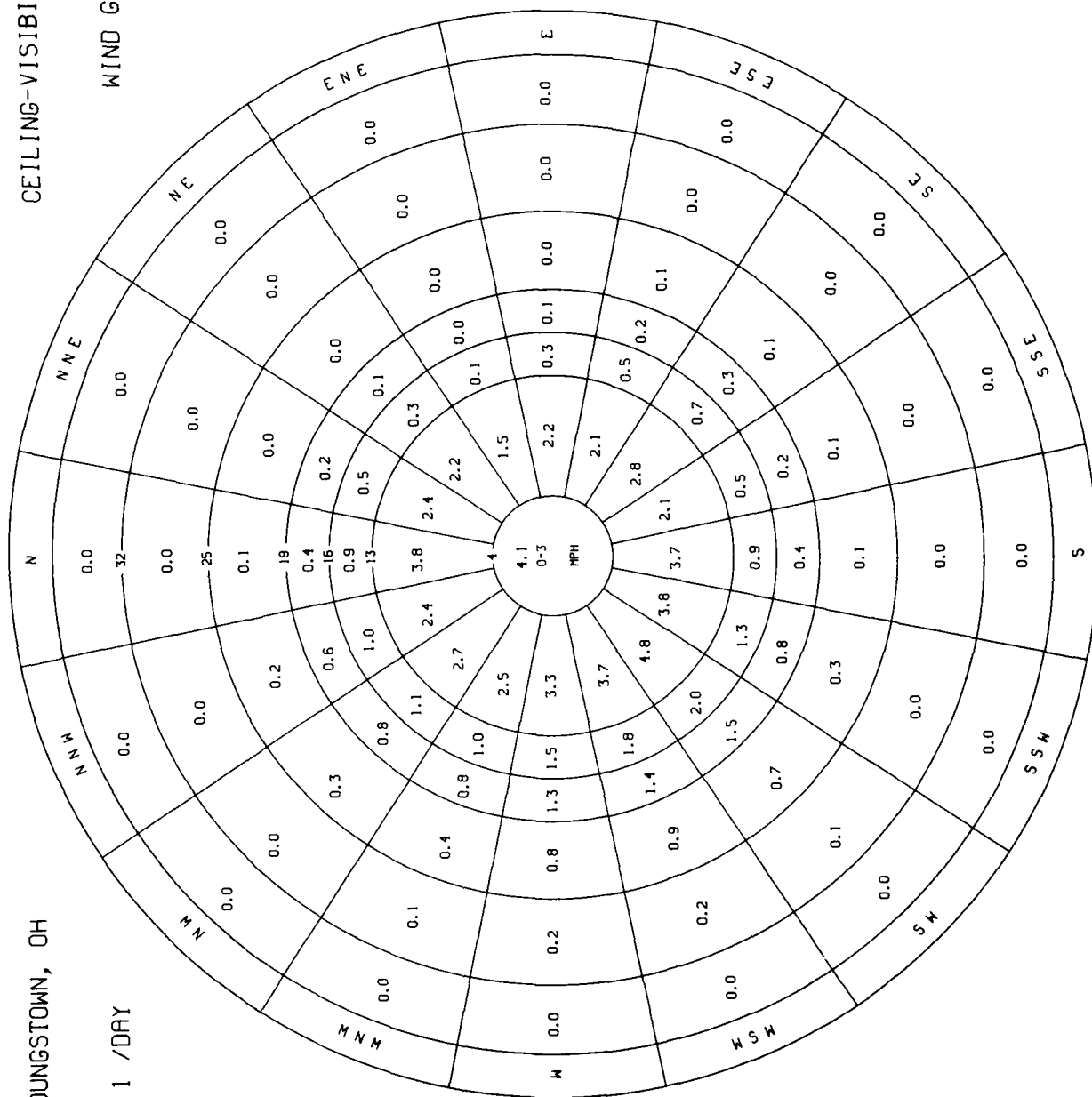
TOL TOLEDO, OH

CLASS 7

CEILING-VISIBILITY WIND GRAPH

YNG YOUNGSTOWN, OH

CLASS 1 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: YNG YOUNGSTOWN, OH

PERIOD: 1948-1978

CLASS 1 / DAY

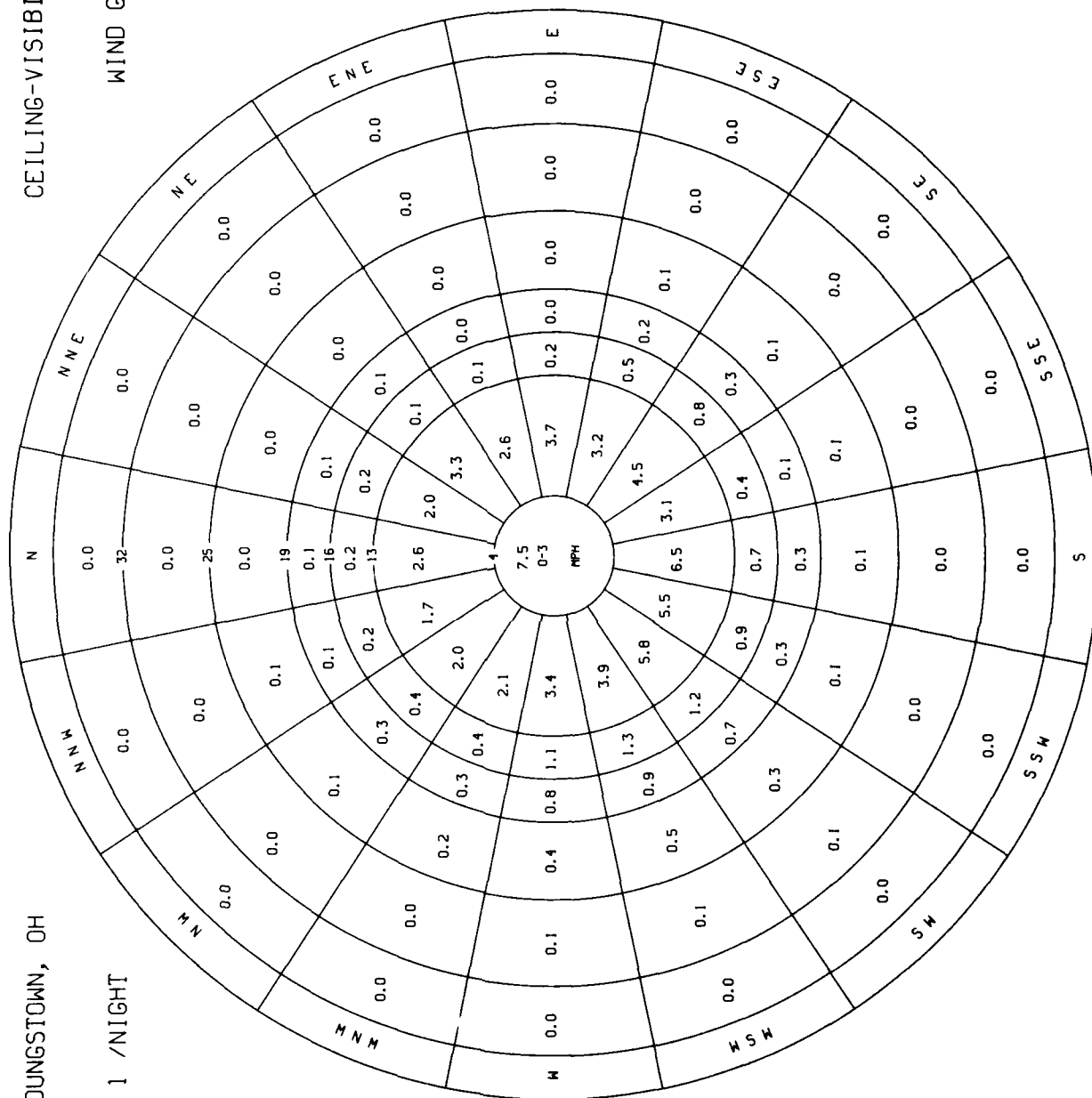
STATION NUMBER: 14852

NO. OBS.: 38442

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.2	.2	3.8	4.8	.9	1.1	.4	.5	.1	.1	.0	.0	.0	.0	5.3	6.8	9.9
NNE	.2	.2	2.4	3.1	.5	.7	.2	.2	.0	.0	.0	.0	.0	.0	3.4	4.3	9.4
NE	.2	.3	2.2	2.9	.3	.4	.1	.1	.0	.0	.0	.0	.0	.0	2.9	3.7	8.5
ENE	.1	.2	1.5	1.9	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	1.8	2.3	7.9
E	.2	.2	2.2	2.9	.3	.3	.1	.1	.0	.0	.0	.0	.0	.0	2.8	3.5	8.3
ESE	.1	.2	2.1	2.6	.5	.6	.2	.3	.1	.1	.0	.0	.0	.0	2.9	3.7	9.8
SE	.2	.3	2.8	3.5	.7	.9	.3	.4	.1	.1	.0	.0	.0	.0	4.0	5.1	9.8
SSE	.1	.1	2.1	2.6	.5	.7	.2	.2	.1	.1	.0	.0	.0	.0	2.9	3.8	10.0
S	.2	.3	3.7	4.7	.9	1.2	.4	.4	.1	.1	.0	.0	.0	.0	5.3	6.8	9.9
SSW	.2	.2	3.8	4.9	1.3	1.7	.8	1.0	.3	.3	.0	.0	.0	.0	6.4	8.2	11.2
SW	.2	.3	4.8	6.2	2.0	2.6	1.5	1.9	.7	.9	.1	.1	.0	.0	9.4	12.0	12.2
WSW	.2	.2	3.7	4.8	1.8	2.3	1.4	1.8	.9	1.1	.2	.3	.0	.0	8.2	10.5	13.0
W	.2	.2	3.3	4.2	1.5	1.9	1.3	1.6	.8	1.0	.2	.2	.0	.0	7.2	9.2	12.8
WNW	.1	.2	2.5	3.2	1.0	1.3	.8	1.0	.4	.5	.1	.1	.0	.0	4.9	6.3	12.1
NW	.1	.2	2.7	3.4	1.1	1.5	.8	1.1	.3	.4	.0	.0	.0	.0	5.2	6.6	11.9
NNW	.1	.1	2.4	3.1	1.0	1.3	.6	.7	.2	.3	.0	.0	.0	.0	4.3	5.5	11.6
CALM	1.4	1.7													1.4	1.7	
TOTAL	4.1	5.3	46.1	58.8	14.6	18.7	8.9	11.4	3.9	5.0	.6	.8	.1	.1	78.4	100	10.9

CEILING-VISIBILITY WIND GRAPH

YNG YOUNGSTOWN, OH
CLASS 1 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: YNG YOUNGSTOWN, OH

PERIOD: 1948-1978

CLASS 1 / NIGHT

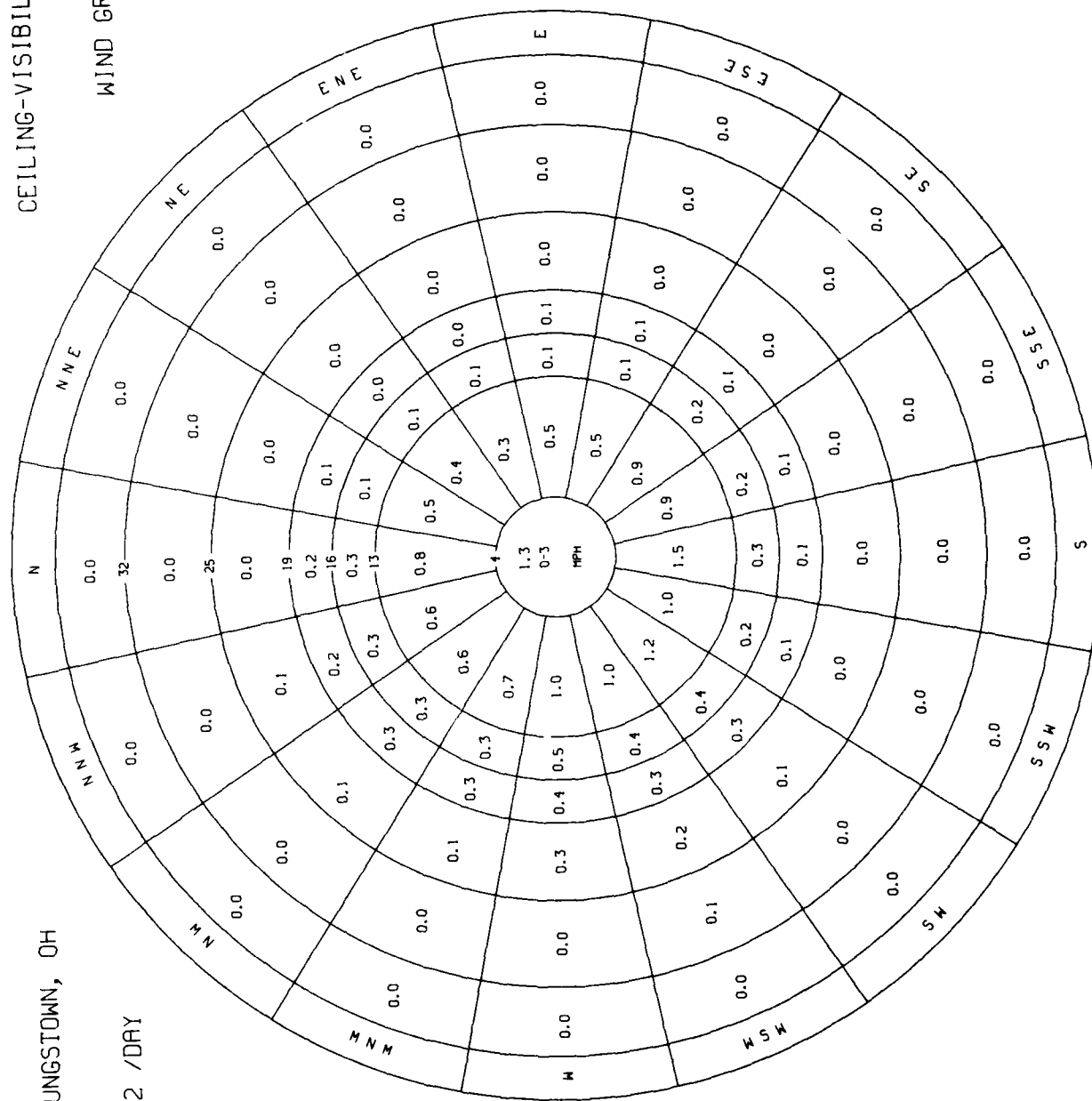
STATION NUMBER: 14852

NO. OBS.: 33038

D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.2	.3	2.6	3.3	.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	3.2	4.1	8.2
NNE	.2	.3	2.0	2.5	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	2.5	3.1	8.1
NE	.3	.4	3.3	4.2	.1	.2	.1	.1	.0	.0	.0	.0	.0	.0	3.0	4.9	7.4
ENE	.2	.3	2.6	3.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	3.0	3.8	7.4
E	.3	.4	3.7	4.7	.2	.3	.0	.1	.0	.0	.0	.0	.0	.0	4.3	5.4	7.5
ESE	.2	.3	3.2	4.0	.5	.6	.2	.3	.1	.1	.0	.0	.0	.0	4.2	5.3	9.0
SE	.3	.3	4.5	5.7	.8	1.0	.3	.4	.1	.1	.0	.0	.0	.0	5.9	7.5	9.2
SSE	.1	.2	3.1	3.9	.4	.5	.1	.2	.1	.1	.0	.0	.0	.0	3.9	4.9	8.9
S	.3	.4	6.5	8.2	.7	.9	.3	.3	.1	.1	.0	.0	.0	.0	7.9	9.9	8.7
SSW	.3	.4	5.5	6.9	.9	1.2	.3	.4	.1	.1	.0	.0	.0	.0	7.2	9.1	9.4
SW	.4	.4	5.8	7.3	1.2	1.5	.7	.8	.3	.4	.1	.1	.0	.0	8.4	10.6	10.1
WSW	.3	.4	3.9	4.9	1.3	1.6	.9	1.1	.5	.7	.1	.1	.0	.0	7.1	8.9	11.4
W	.3	.4	3.4	4.3	1.1	1.3	.8	1.0	.4	.6	.1	.1	.0	.0	6.2	7.8	11.2
WNW	.2	.3	2.1	2.6	.4	.6	.3	.4	.2	.2	.0	.0	.0	.0	3.3	4.2	10.3
NW	.2	.3	2.0	2.5	.4	.5	.3	.3	.1	.1	.0	.0	.0	.0	3.0	3.7	9.7
NNW	.2	.2	1.7	2.1	.2	.3	.1	.2	.1	.1	.0	.0	.0	.0	2.3	2.9	8.8
CALM	3.3	4.1													3.3	4.1	
TOTAL	7.5	9.4	56.1	70.5	8.9	11.2	4.6	5.8	2.1	2.7	.4	.4	.1	.1	79.5	100	8.9

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: YNG YOUNGSTOWN, OH

PERIOD: 1948-1978

CLASS 2 / DAY

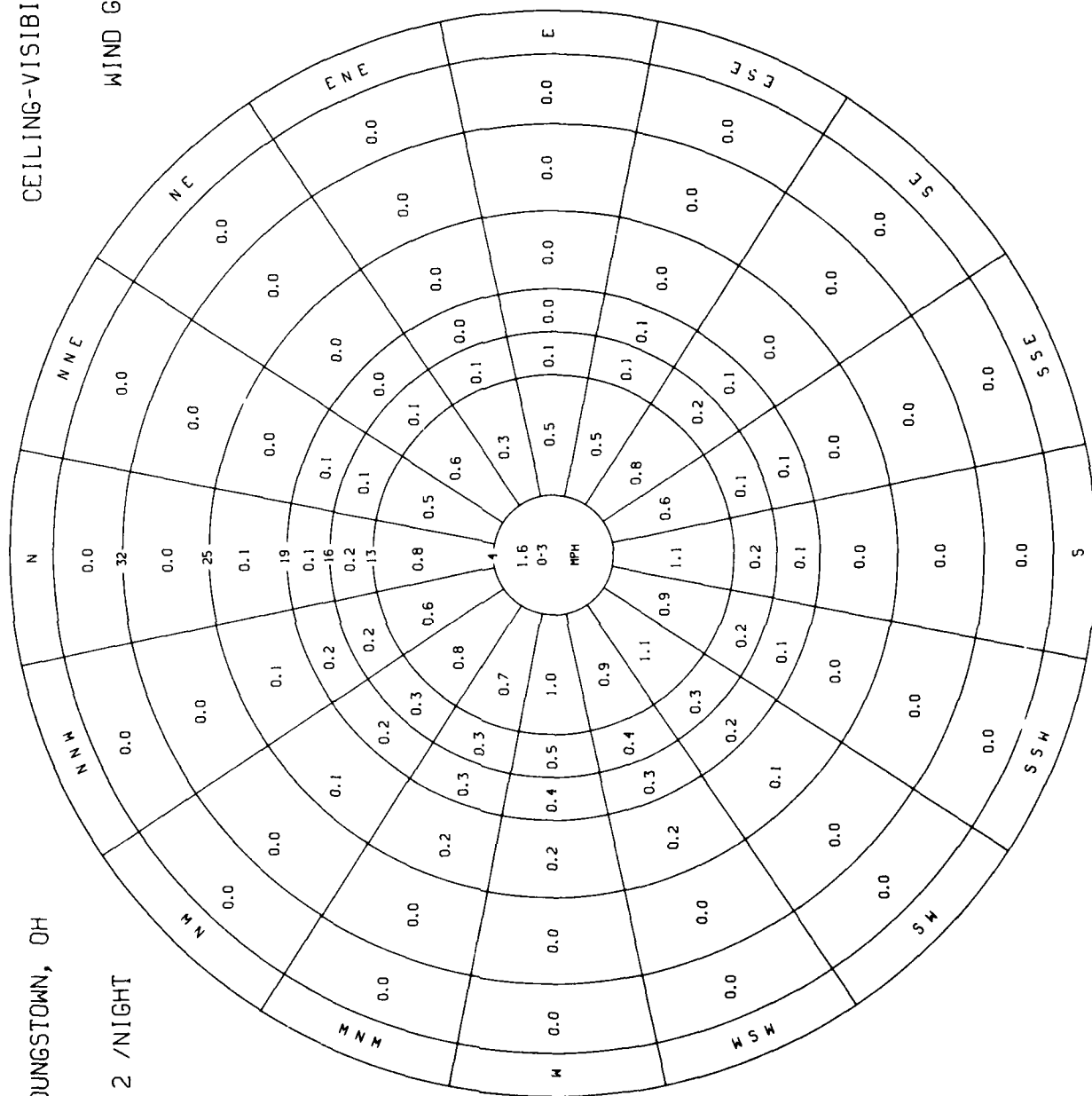
STATION NUMBER: 14852

NO. OBS.: 10589

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.2	.8	3.7	.3	1.2	.2	.8	.0	.2	.0	.0	.0	.0	1.3 6.1 11.1
NNE	.0	.1	.5	2.1	.1	.5	.1	.3	.0	.1	.0	.0	.0	.0	.7 3.1 10.4
NE	.0	.1	.4	1.8	.1	.3	.0	.2	.0	.1	.0	.0	.0	.0	.5 2.5 9.6
ENE	.0	.1	.3	1.2	.1	.2	.0	.1	.0	.1	.0	.0	.0	.0	.4 1.8 9.6
E	.1	.2	.5	2.3	.1	.5	.1	.2	.0	.0	.0	.0	.0	.0	.7 3.3 9.4
ESE	.1	.2	.5	2.3	.1	.7	.1	.4	.0	.2	.0	.0	.0	.0	.8 3.9 10.2
SE	.1	.4	.9	4.1	.2	1.0	.1	.7	.0	.2	.0	.0	.0	.0	1.4 6.5 10.1
SSE	.1	.3	.9	4.3	.2	.8	.1	.4	.0	.1	.0	.0	.0	.0	1.3 5.8 9.6
S	.1	.5	1.5	7.1	.3	1.2	.1	.4	.0	.1	.0	.0	.0	.0	2.0 9.2 9.2
SSW	.1	.2	1.0	4.6	.2	1.0	.1	.4	.0	.2	.0	.0	.0	.0	1.4 6.5 9.9
SW	.1	.4	1.2	5.7	.4	1.9	.3	1.2	.1	.6	.0	.1	.0	.1	2.2 10.0 11.5
WSW	.1	.2	1.0	4.7	.4	2.0	.3	1.3	.2	.9	.1	.3	.0	.1	2.0 9.4 12.6
W	.1	.2	1.0	4.5	.5	2.4	.4	1.8	.3	1.2	.0	.2	.0	.0	2.2 10.4 13.2
WNW	.0	.2	.7	3.2	.3	1.5	.3	1.4	.1	.7	.0	.2	.0	.0	1.5 7.2 13.0
NW	.0	.2	.6	3.0	.3	1.4	.3	1.5	.1	.5	.0	.1	.0	.0	1.4 6.7 12.7
NNW	.0	.1	.6	2.6	.3	1.3	.2	.9	.1	.4	.0	.1	.0	.0	1.2 5.5 12.6
CALM	.5	2.3													.5 2.3
TOTAL	1.3	6.2	12.3	57.2	3.9	18.0	2.6	11.9	1.2	5.5	.2	1.1	.0	.2	21.6 100 11.0

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: YNG YOUNGSTOWN, OH

PERIOD: 1948-1978

CLASS 2 / NIGHT

STATION NUMBER: 14852

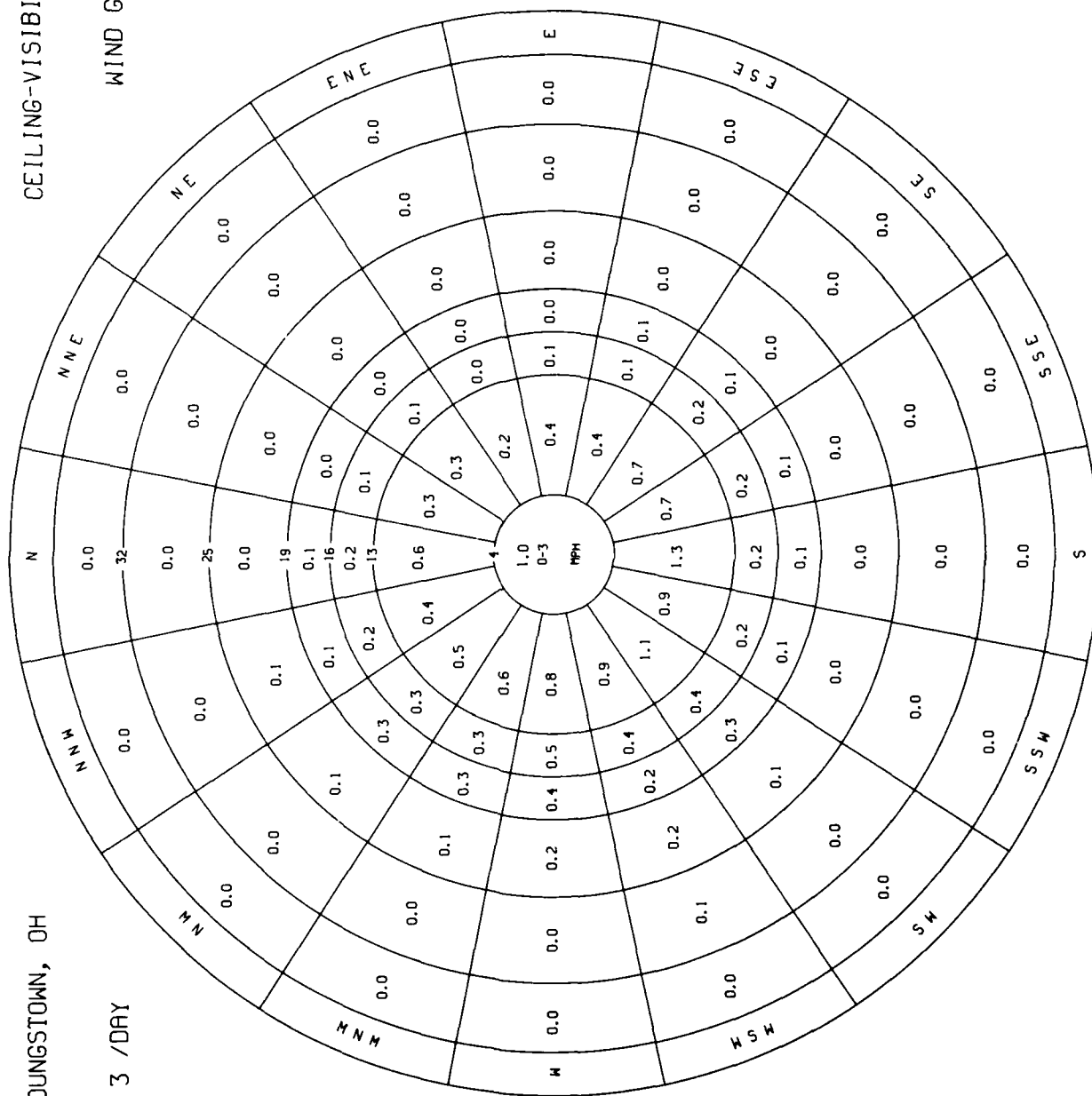
NO. OBS.: 8494

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.1	.3	.8	4.1	.2	1.2	.1	.7	.1	.2	.0	.0	.0	.0	1.3	6.6	10.7
NNE	.1	.3	.5	2.4	.1	.6	.1	.4	.0	.1	.0	.0	.0	.0	.8	3.8	10.3
NNE	.1	.2	.6	2.7	.1	.3	.0	.1	.0	.0	.0	.0	.0	.0	.7	3.4	8.7
ENE	.0	.2	.3	1.6	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.4	2.1	8.5
E	.1	.3	.5	2.6	.1	.3	.0	.2	.0	.1	.0	.0	.0	.0	.7	3.4	8.8
ESE	.1	.3	.5	2.5	.1	.5	.1	.3	.0	.2	.0	.0	.0	.0	.8	3.9	9.9
SE	.1	.3	.8	3.9	.2	1.0	.1	.6	.0	.2	.0	.0	.0	.0	1.2	5.9	10.0
SSE	.0	.2	.6	3.1	.1	.7	.1	.2	.0	.1	.0	.0	.0	.0	.9	4.3	9.5
S	.1	.4	1.1	5.5	.2	.8	.1	.3	.0	.1	.0	.0	.0	.0	1.4	7.0	8.9
SSW	.0	.2	.9	4.4	.2	.9	.1	.4	.0	.1	.0	.0	.0	.0	1.2	6.0	9.8
SW	.1	.4	1.1	5.2	.3	1.7	.2	1.0	.1	.5	.0	.1	.0	.0	1.8	8.8	11.1
WSW	.1	.4	.9	4.3	.4	2.1	.3	1.4	.2	1.2	.0	.2	.0	.0	2.0	9.6	12.8
W	.1	.3	1.0	5.1	.5	2.6	.4	1.9	.2	1.0	.0	.1	.0	.1	2.3	11.0	12.6
WNW	.0	.2	.7	3.6	.3	1.6	.3	1.2	.2	.8	.0	.2	.0	.0	1.5	7.6	12.8
NW	.0	.2	.8	3.8	.3	1.4	.2	1.2	.1	.6	.0	.1	.0	.0	1.5	7.3	11.9
NNW	.0	.2	.6	2.9	.2	1.2	.2	.8	.1	.4	.0	.1	.0	.0	1.1	5.5	12.0
CALM	.8	3.8													.8	3.8	
TOTAL	1.6	8.0	11.8	57.5	3.5	17.1	2.2	10.7	1.2	5.7	.2	.8	.0	.1	20.5	100	10.5

A
816

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: YNG YOUNGSTOWN, OH

PERIOD: 1948-1978

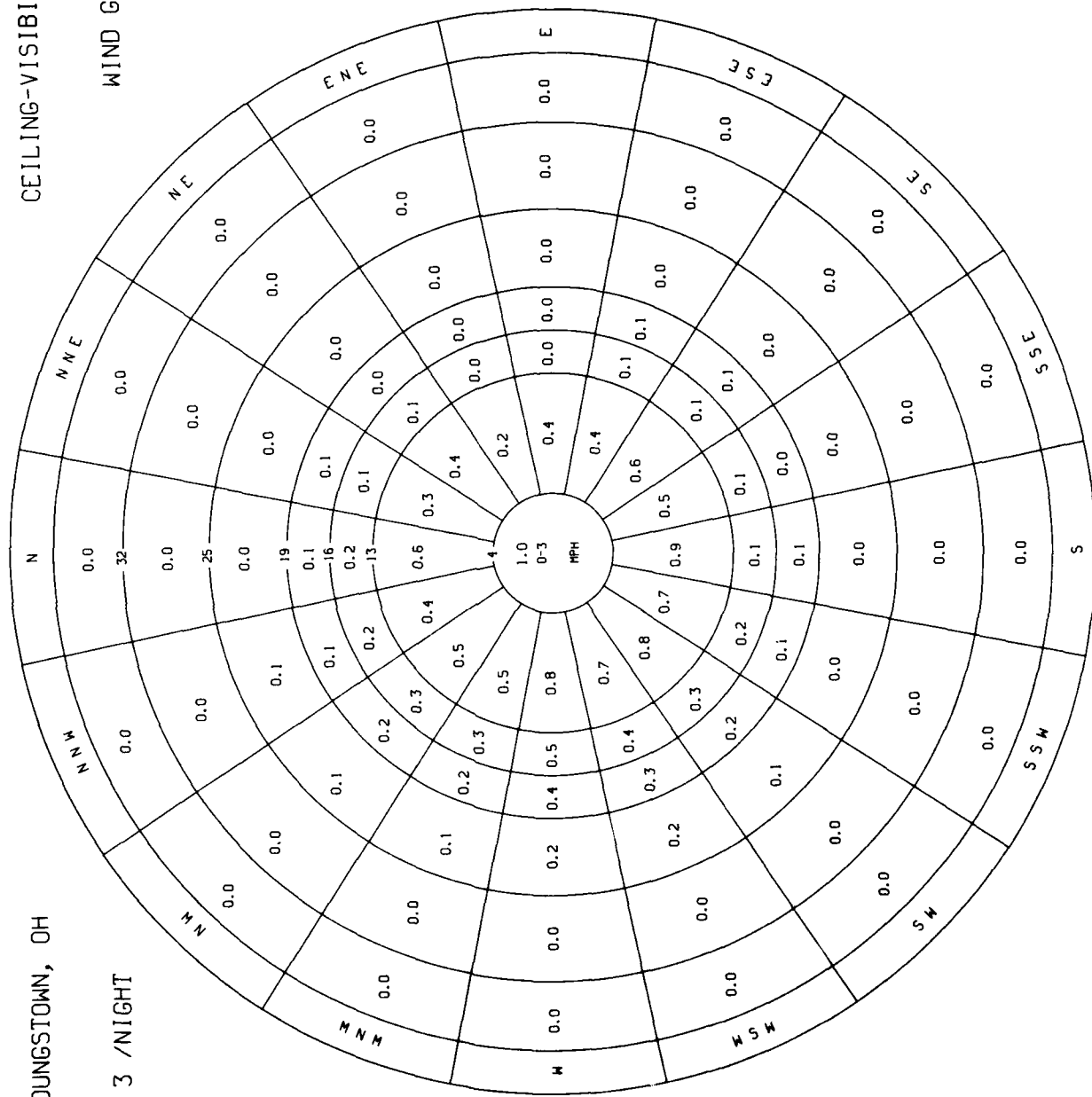
CLASS 3 / DAY

STATION NUMBER: 14852

NO. OBS.: 8876

D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.1	.6	3.4	.2	1.1	.1	.8	.0	.2	.0	.0	.0	.0	1.0	5.7	11.3
NNE	.0	.1	.3	1.9	.1	.5	.0	.3	.0	.1	.0	.0	.0	.0	.5	2.9	10.6
NE	.0	.1	.3	1.5	.1	.3	.0	.2	.0	.1	.0	.0	.0	.0	.4	2.2	9.7
ENE	.0	.1	.2	1.1	.0	.2	.0	.1	.0	.0	.0	.0	.0	.0	.3	1.6	9.4
E	.0	.2	.4	2.0	.1	.5	.0	.2	.0	.0	.0	.0	.0	.0	.5	3.0	9.4
ESE	.0	.2	.4	2.1	.1	.7	.1	.4	.0	.2	.0	.0	.0	.0	.7	3.7	10.7
SE	.1	.4	.7	3.9	.2	1.0	.1	.7	.0	.2	.0	.0	.0	.0	1.1	6.3	10.3
SSE	.0	.3	.7	4.1	.2	.9	.1	.4	.0	.1	.0	.0	.0	.0	1.0	5.7	9.8
S	.1	.4	1.3	7.2	.2	1.3	.1	.4	.0	.1	.0	.0	.0	.0	1.7	9.4	9.3
SSW	.0	.2	.9	4.8	.2	1.2	.1	.5	.0	.2	.0	.0	.0	.0	1.3	6.9	10.1
SW	.1	.4	1.1	5.9	.4	2.1	.3	1.4	.1	.6	.0	.1	.0	.0	1.9	10.6	11.6
WSW	.0	.2	.3	4.9	.4	2.2	.2	1.3	.2	1.0	.1	.3	.0	.1	1.8	10.0	12.8
W	.0	.2	.8	4.6	.5	2.6	.4	2.0	.2	1.3	.0	.2	.0	.0	2.0	11.1	13.4
WNW	.0	.2	.6	3.1	.3	1.5	.3	1.4	.1	.8	.0	.2	.0	.0	1.3	7.1	13.1
NW	.0	.2	.5	2.9	.3	1.4	.3	1.6	.1	.6	.0	.1	.0	.0	1.2	6.7	13.0
NNW	.0	.1	.4	2.5	.2	1.3	.1	.8	.1	.5	.0	.1	.0	.0	.9	5.2	12.6
CALM	.3	1.8													.3	1.8	
TOTAL	1.0	5.3	10.1	56.1	3.4	18.8	2.3	12.6	1.1	6.0	.2	1.1	.0	.2	18.1	100	11.2

CEILING-VISIBILITY
WIND GRAPH



YNG YOUNGSTOWN, OH
CLASS 3 /NIGHT

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: YNG YOUNGSTOWN, OH

PERIOD: 1948-1978

CLASS 3 / NIGHT

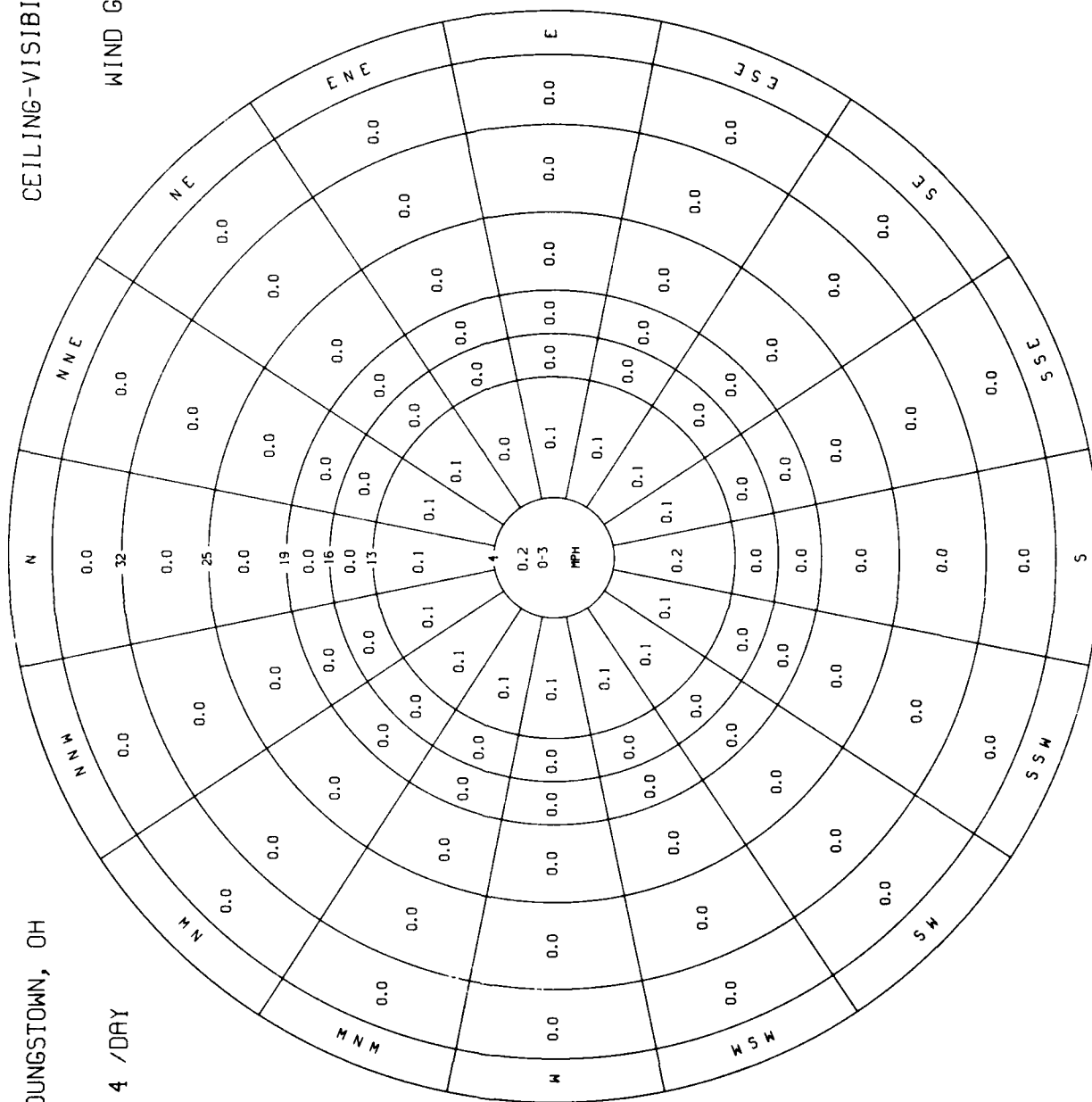
STATION NUMBER: 14852

NO. OBS.: 6603

D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.2	.6	3.6	.2	1.2	.1	.8	.0	.3	.0	.0	.0	.0	1.0	6.2	11.3
NNE	.0	.2	.3	2.1	.1	.6	.1	.4	.0	.2	.0	.0	.0	.0	.5	3.5	10.7
NE	.0	.2	.4	2.3	.1	.4	.0	.1	.0	.0	.0	.0	.0	.0	.5	3.0	9.2
ENE	.0	.2	.2	1.5	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.3	1.9	8.4
E	.0	.2	.4	2.4	.0	.3	.0	.2	.0	.1	.0	.0	.0	.0	.5	3.1	8.9
ESE	.0	.3	.4	2.4	.1	.5	.1	.4	.0	.2	.0	.0	.0	.0	.6	3.8	10.1
SE	.0	.2	.6	3.7	.1	.8	.1	.6	.0	.2	.0	.0	.0	.0	.9	5.5	10.1
SSE	.0	.2	.5	2.9	.1	.7	.0	.3	.0	.1	.0	.0	.0	.0	.7	4.2	9.7
S	.1	.3	.9	5.7	.1	.9	.1	.3	.0	.1	.0	.0	.0	.0	1.2	7.4	9.0
SSW	.0	.2	.7	4.5	.2	1.0	.1	.5	.0	.2	.0	.0	.0	.0	1.0	6.3	10.1
SW	.1	.3	.8	4.9	.3	2.0	.2	1.2	.1	.6	.0	.1	.0	.0	1.5	9.2	11.6
WSW	.1	.4	.7	4.5	.4	2.6	.3	1.7	.2	1.5	.0	.3	.0	.0	1.7	10.9	13.2
W	.0	.2	.8	5.3	.5	3.1	.4	2.3	.2	1.2	.0	.2	.0	.1	1.9	12.2	13.1
WNW	.0	.1	.5	3.2	.3	1.8	.2	1.4	.1	.9	.0	.2	.0	.0	1.2	7.7	13.5
NW	.0	.2	.5	3.3	.3	1.6	.2	1.2	.1	.7	.0	.1	.0	.0	1.1	7.0	12.5
NNW	.0	.2	.4	2.5	.2	1.1	.1	.8	.1	.5	.0	.1	.0	.0	.8	5.1	12.5
CALM	.5	2.9													.5	2.9	
TOTAL	1.0	6.5	8.7	54.7	3.0	18.8	1.9	12.3	1.1	6.7	.2	1.0	.0	.1	15.9	100	11.1

CEILING-VISIBILITY
WIND GRAPH

YNG YOUNGSTOWN, OH
CLASS 4 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: YNG YOUNGSTOWN, OH

PERIOD: 1948-1978

CLASS 4 / DAY

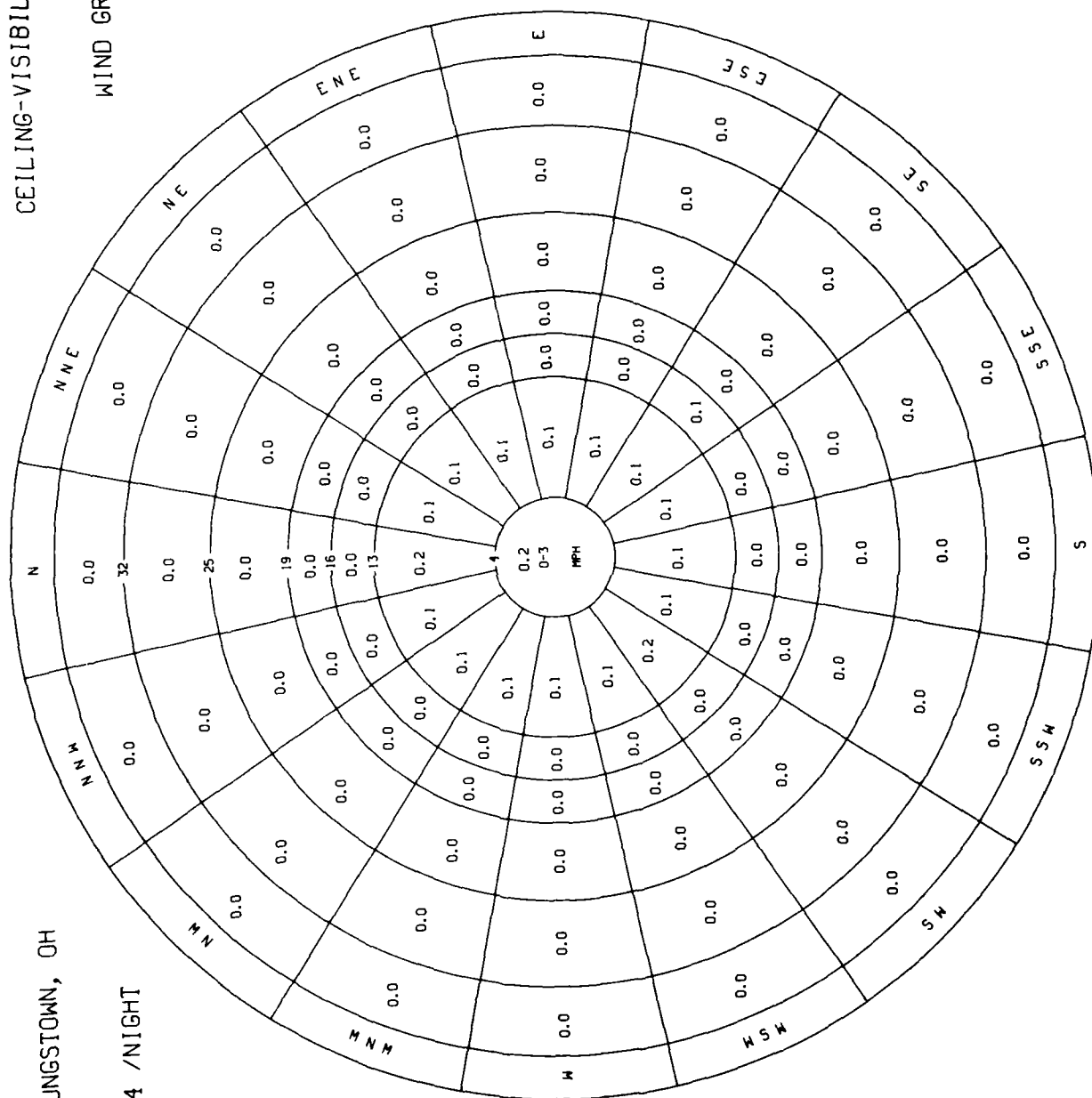
STATION NUMBER: 14852

NO. OBS.: 1255

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.3	.1	5.3	.0	1.5	.0	.9	.0	.3	.0	.0	.0	.0	.2 8.4
NNE	.0	.2	.1	3.0	.0	.6	.0	.3	.0	.2	.0	.0	.0	.0	.1 4.4
NE	.0	.2	.1	2.8	.0	.2	.0	.4	.0	.1	.0	.0	.0	.0	.1 3.6
ENE	.0	.1	.0	1.4	.0	.3	.0	.2	.0	.2	.0	.1	.0	.0	.1 2.2
E	.0	.2	.1	2.9	.0	.6	.0	.5	.0	.1	.0	.0	.0	.0	.1 4.3
ESE	.0	.3	.1	3.1	.0	.5	.0	.3	.0	.3	.0	.0	.0	.0	.1 4.5
SE	.0	.7	.1	4.9	.0	1.4	.0	.6	.0	.1	.0	.0	.0	.0	.2 7.6
SSE	.0	.2	.1	4.9	.0	.9	.0	.3	.0	.1	.0	.0	.0	.0	.2 6.4
S	.0	.5	.2	7.1	.0	.8	.0	.2	.0	.1	.0	.0	.0	.0	.2 8.6
SSW	.0	.2	.1	4.1	.0	.6	.0	.1	.0	.1	.0	.0	.0	.0	.1 5.0
SW	.0	.3	.1	4.9	.0	1.0	.0	.5	.0	.4	.0	.1	.0	.1	.2 7.2
WSW	.0	.2	.1	3.8	.0	1.0	.0	1.1	.0	.3	.0	.2	.0	.0	.2 6.7
W	.0	.3	.1	4.0	.0	1.2	.0	1.0	.0	.7	.0	.2	.0	.1	.2 7.5
WNW	.0	.0	.1	3.1	.0	1.8	.0	1.4	.0	.4	.0	.3	.0	.0	.2 7.0
NW	.0	.2	.1	3.3	.0	1.6	.0	1.0	.0	.3	.0	.2	.0	.0	.2 6.5
NNW	.0	.2	.1	3.3	.0	1.6	.0	1.2	.0	.3	.0	.1	.0	.1	.2 6.9
CALM	.1	3.2													.1 3.2
TOTAL	.2	7.5	1.6	61.9	.4	15.4	.3	10.0	.1	3.9	.0	1.1	.0	.2	2.6 10.3

CEILING-VISIBILITY

WIND GRAPH



YNG YOUNGSTOWN, OH

CLASS 4 /NIGHT

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: YNG YOUNGSTOWN, OH

PERIOD: 1948-1978

CLASS 4 / NIGHT

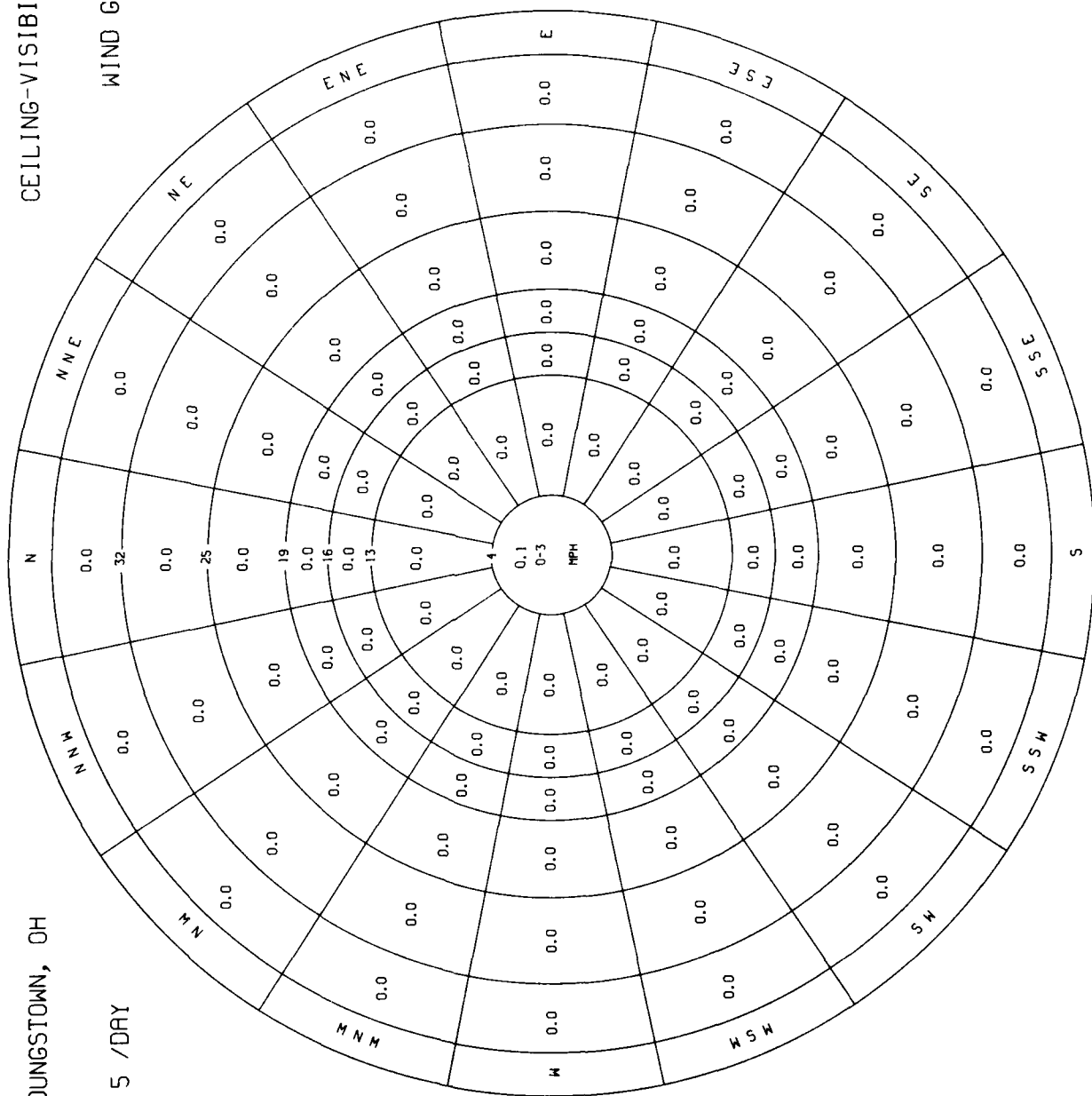
STATION NUMBER: 14852

NO. OBS.: 1137

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.0	.5	.2	5.6	.0	1.7	.0	.5	.0	.2	.0	.0	.0	.0	.2	8.5	9.9
NNE	.0	.5	.1	4.0	.0	.9	.0	.6	.0	.2	.0	.0	.0	.0	.2	6.2	9.8
NE	.0	.3	.1	3.5	.0	.3	.0	.1	.0	.1	.0	.0	.0	.0	.1	4.2	8.9
ENE	.0	.1	.1	1.8	.0	.5	.0	.2	.0	.0	.0	.0	.0	.0	.1	2.6	9.5
E	.0	.4	.1	2.2	.0	.4	.0	.3	.0	.2	.0	.0	.0	.0	.1	3.3	10.0
ESE	.0	.2	.1	2.9	.0	.9	.0	.2	.0	.1	.0	.0	.0	.0	.1	4.2	9.9
SE	.0	.4	.1	4.8	.1	2.1	.0	.8	.0	.0	.0	.0	.0	.0	.2	8.2	10.4
SSE	.0	.2	.1	3.3	.0	.5	.0	.3	.0	.0	.0	.0	.0	.0	.1	4.3	9.4
S	.0	.1	.1	4.7	.0	.5	.0	.1	.0	.2	.0	.0	.0	.0	.2	5.5	8.9
SSW	.0	.2	.1	3.7	.0	.8	.0	.4	.0	.1	.0	.0	.0	.0	.1	5.1	9.3
SW	.0	.2	.2	5.8	.0	.9	.0	.1	.0	.3	.0	.2	.0	.2	.2	7.6	10.2
WSW	.0	.4	.1	3.4	.0	.9	.0	.1	.0	.4	.0	.1	.0	.0	.1	5.2	10.5
W	.0	.3	.1	4.9	.0	1.2	.0	.8	.0	.5	.0	.0	.0	.1	.2	7.8	10.8
WNW	.0	.2	.1	4.6	.0	1.4	.0	1.0	.0	.2	.0	.1	.0	.0	.2	7.4	10.8
NW	.0	.3	.1	5.2	.0	1.1	.0	1.4	.0	.4	.0	.0	.0	.0	.2	8.4	11.2
NNW	.0	.2	.1	4.1	.0	1.3	.0	1.0	.0	.2	.0	.2	.0	.0	.2	6.9	11.2
CALM	.1	4.5													.1	4.5	
TOTAL	.2	8.7	1.8	64.6	.4	15.4	.2	7.7	.1	2.8	.0	.5	.0	.3	.2	7	100
																	9.7

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: YNG YOUNGSTOWN, OH

PERIOD: 1948-1978

CLASS 5 / DAY

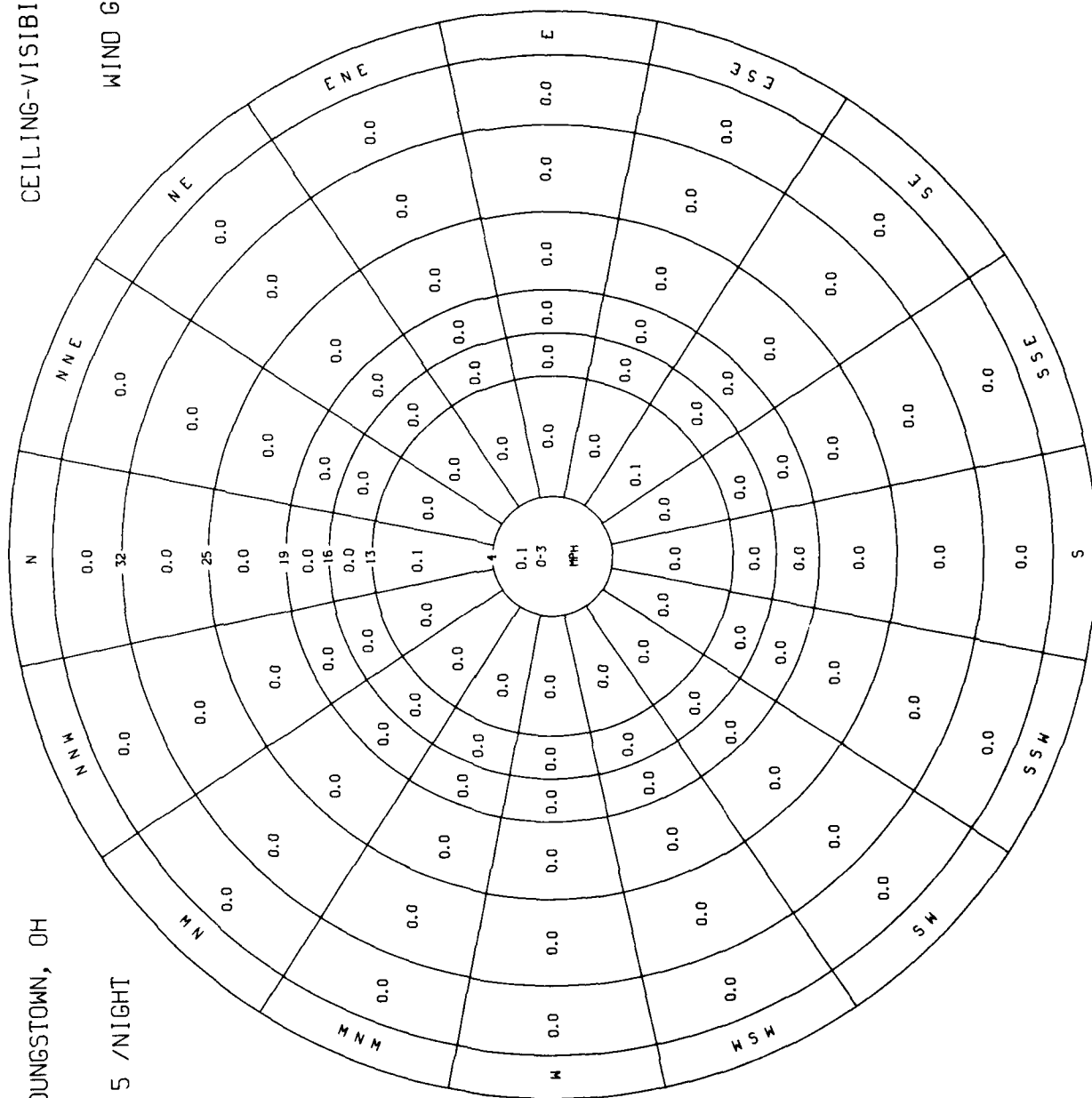
STATION NUMBER: 14852

NO. OBS.: 204

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.0	1.0	.0	4.9	.0	1.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	7.8	9.6
NNE	.0	.0	.0	3.9	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.9	9.1
NE	.0	.5	.0	3.9	.0	1.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	5.9	9.9
ENE	.0	.5	.0	2.5	.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	3.9	10.2
E	.0	.5	.0	5.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.9	7.5
ESE	.0	.0	.0	3.9	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.4	8.1
SE	.0	1.0	.0	5.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.9	6.6
SSE	.0	.0	.0	4.4	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.9	8.8
S	.0	.5	.0	4.4	.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	5.9	8.5
SSW	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	7.3
SW	.0	.0	.0	3.9	.0	2.5	.0	.0	.0	.5	.0	.0	.0	.0	.0	6.9	11.8
WSW	.0	.0	.0	2.0	.0	1.0	.0	.5	.0	.0	.0	.5	.0	.5	.0	4.4	16.9
W	.0	1.0	.0	2.0	.0	1.5	.0	.0	.0	.0	.0	.5	.0	.0	.0	4.9	10.8
WNW	.0	.5	.0	5.4	.0	2.5	.0	.5	.0	.5	.0	.0	.0	.0	.0	9.3	10.7
NW	.0	.5	.0	3.4	.0	.5	.0	.0	.0	.0	.0	1.0	.0	.0	.0	5.4	10.4
NNW	.0	.5	.0	3.9	.0	2.5	.0	2.5	.0	.5	.0	.0	.0	.0	.0	9.8	12.4
CALM	.0	6.4													.0	6.4	
TOTAL	.1	12.7	.3	61.3	.1	16.7	.0	4.9	.0	2.0	.0	2.0	.0	.5	.4	100	9.4

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: YNG YOUNGSTOWN, OH

PERIOD: 1948-1978

CLASS 5 / NIGHT

STATION NUMBER: 14852

NO. OBS.: 349

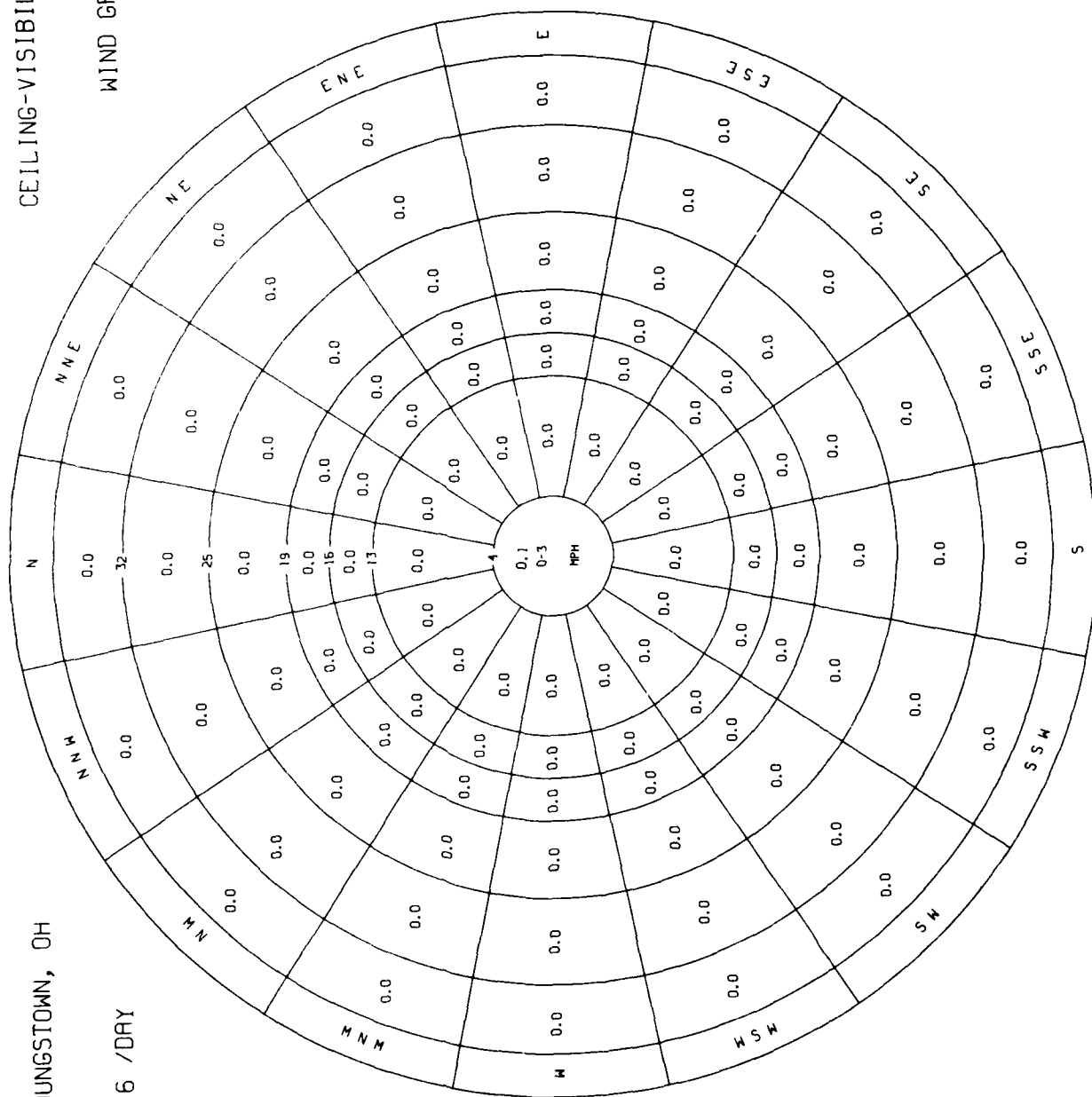
D I R	SPEED GROUPS (MPH)															AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL			
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D	
N	.0	.9	.1	6.3	.0	.6	.0	.3	.0	.0	.0	.0	.0	.0	.0	.1	8.0	7.7
NNE	.0	.0	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	7.8
NE	.0	.0	.0	4.9	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	5.4	8.1
ENE	.0	.6	.0	4.6	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	5.7	8.2
E	.0	1.1	.0	4.6	.0	.3	.0	.6	.0	.0	.0	.0	.0	.0	.0	.1	6.6	7.3
ESE	.0	.3	.0	3.2	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	4.0	8.4
SE	.0	.3	.1	6.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	7.4	8.4
SSE	.0	.0	.0	2.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	8.6
S	.0	1.1	.0	4.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.4	7.2
SSW	.0	.3	.0	4.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.2	7.2
SW	.0	.6	.0	5.4	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.1	6.3	7.0
WSW	.0	.3	.0	3.7	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.9	8.6
W	.0	1.1	.0	3.4	.0	.9	.0	.6	.0	.3	.0	.0	.0	.0	.0	.1	6.3	8.8
WNW	.0	.3	.0	5.7	.0	.3	.0	.0	.0	.9	.0	.3	.0	.0	.0	.1	7.4	10.2
NW	.0	.3	.0	5.4	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.0	.1	6.3	9.0
NNW	.0	.0	.0	5.4	.0	1.7	.0	.3	.0	.0	.0	.0	.0	.0	.0	.1	7.4	9.8
CALM	.1	7.7														.1	7.7	
TOTAL	.1	14.9	.6	72.8	.1	7.4	.0	2.9	.0	1.7	.0	.3	.0	.0	.8	100		7.7

CEILING-VISIBILITY

WIND GRAPH

YNG YOUNGSTOWN, OH

CLASS 6 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: YNG YOUNGSTOWN, OH

PERIOD: 1948-1978

CLASS 6 / DAY

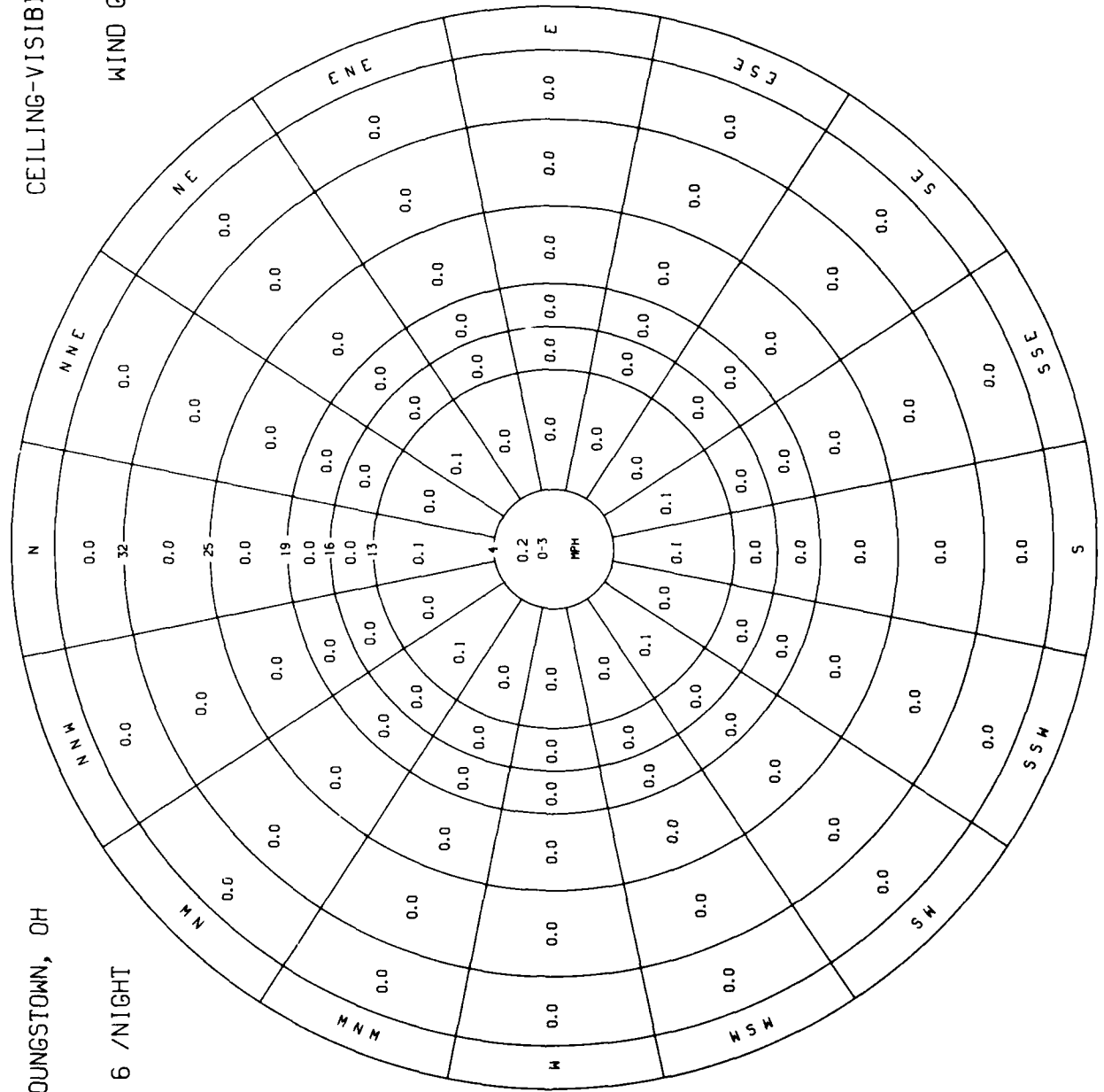
STATION NUMBER: 14852

NO. OBS.: 254

D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	1.6	.0	3.5	.0	.4	.0	.0	.0	.8	.0	.0	.0	.0	.0	6.3	8.5
NNE	.0	.8	.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.9	5.8
NE	.0	.4	.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5	6.9
ENE	.0	.8	.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	6.1
E	.0	.4	.0	4.7	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	5.5	8.3
ESE	.0	.8	.0	5.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.3	5.7
SE	.0	.4	.0	6.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.7	7.7
SSE	.0	1.2	.0	5.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.7	6.9
S	.0	1.6	.0	5.9	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.9	6.7
SSW	.0	.8	.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	6.0
SW	.0	.8	.0	4.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	5.9	8.5
WSW	.0	1.2	.0	4.3	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	6.3	7.7
W	.0	.0	.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	7.0
WNW	.0	.4	.0	6.7	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.9	7.7
NW	.0	1.2	.0	5.1	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	6.7	8.2
NNW	.0	.8	.0	2.4	.0	.8	.0	.4	.0	.4	.0	.0	.0	.0	.0	4.7	10.0
CALM	.1	12.2													.1	12.2	
TOTAL	.1	25.2	.4	68.9	.0	2.4	.0	1.6	.0	1.6	.0	.0	.0	.4	.5	100	6.6

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: YNG YOUNGSTOWN, OH

CLASS 6 / NIGHT

NO. OBS.: 405

STATION NUMBER: 14852

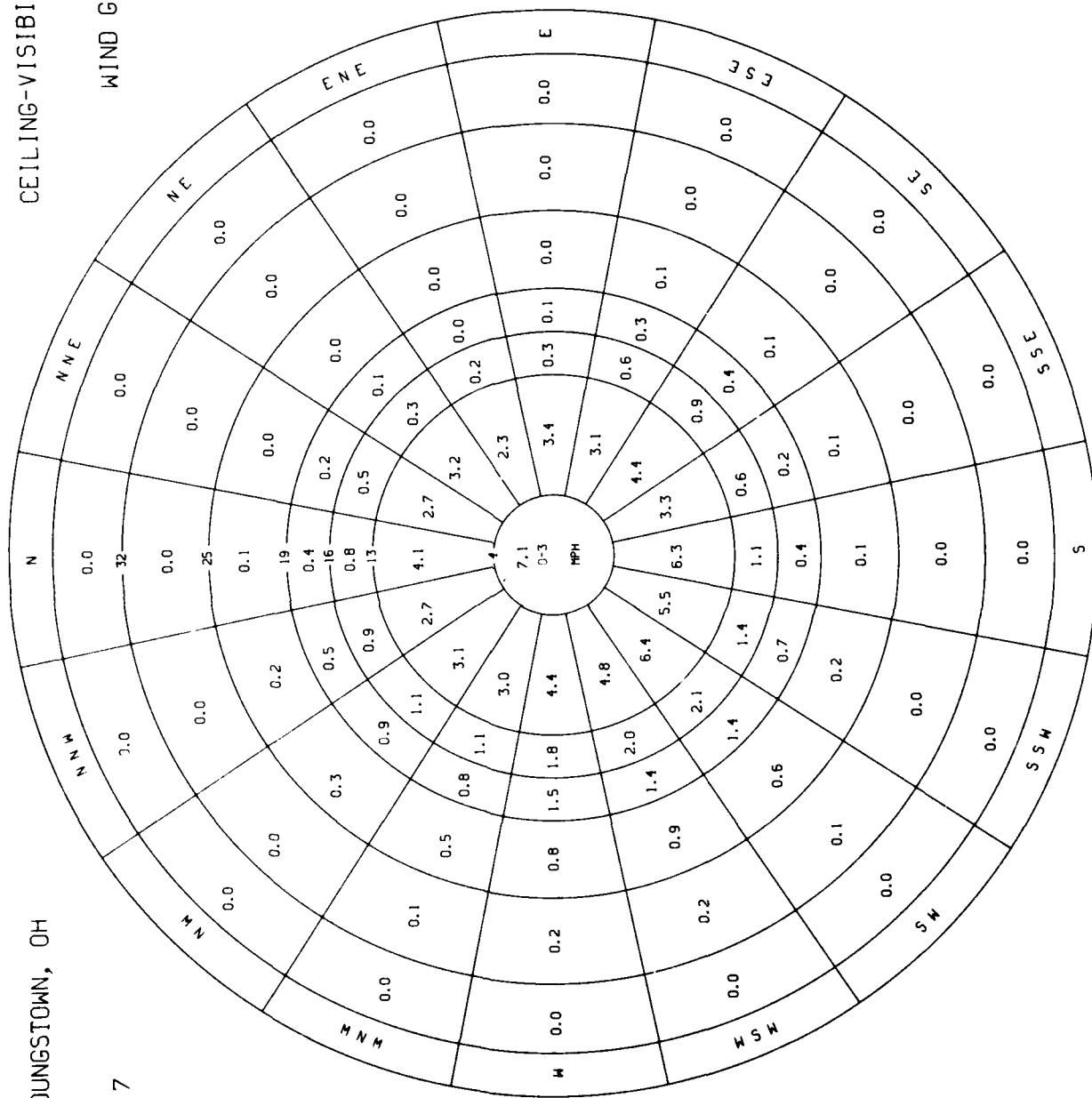
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED			
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B		C	D	
N	.0	.5	.1	5.4	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	6.2	7.5
NNE	.0	1.0	.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5	6.3
NE	.0	2.0	.1	5.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	7.7	5.7
ENE	.0	.2	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	5.8
E	.0	.7	.0	4.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	5.4	6.7
ESE	.0	.2	.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	6.7
SE	.0	.5	.0	3.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.2	6.5
SSE	.0	.0	.1	5.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	5.4	8.2
S	.0	.5	.1	6.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	6.7	7.2
SSW	.0	.0	.0	4.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.4	7.9
SW	.0	1.7	.1	6.9	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	8.9	6.2
WSW	.0	1.2	.0	3.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	4.7	6.1
W	.0	1.2	.0	3.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.7	6.2
WNW	.0	1.2	.0	4.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	5.4	6.3
NW	.0	.7	.1	7.2	.0	.5	.0	.2	.0	.2	.0	.0	.0	.0	.0	.1	8.9	7.3
NNW	.0	.2	.0	3.7	.0	1.2	.0	.5	.0	.5	.0	.0	.0	.0	.0	.1	6.2	10.5
CALM	.1	13.3														.1	13.3	
TOTAL	.2	25.4	.7	69.6	.0	3.2	.0	1.0	.0	.7	.0	.0	.0	.0	.0	1.0	100	6.1

CEILING-VISIBILITY

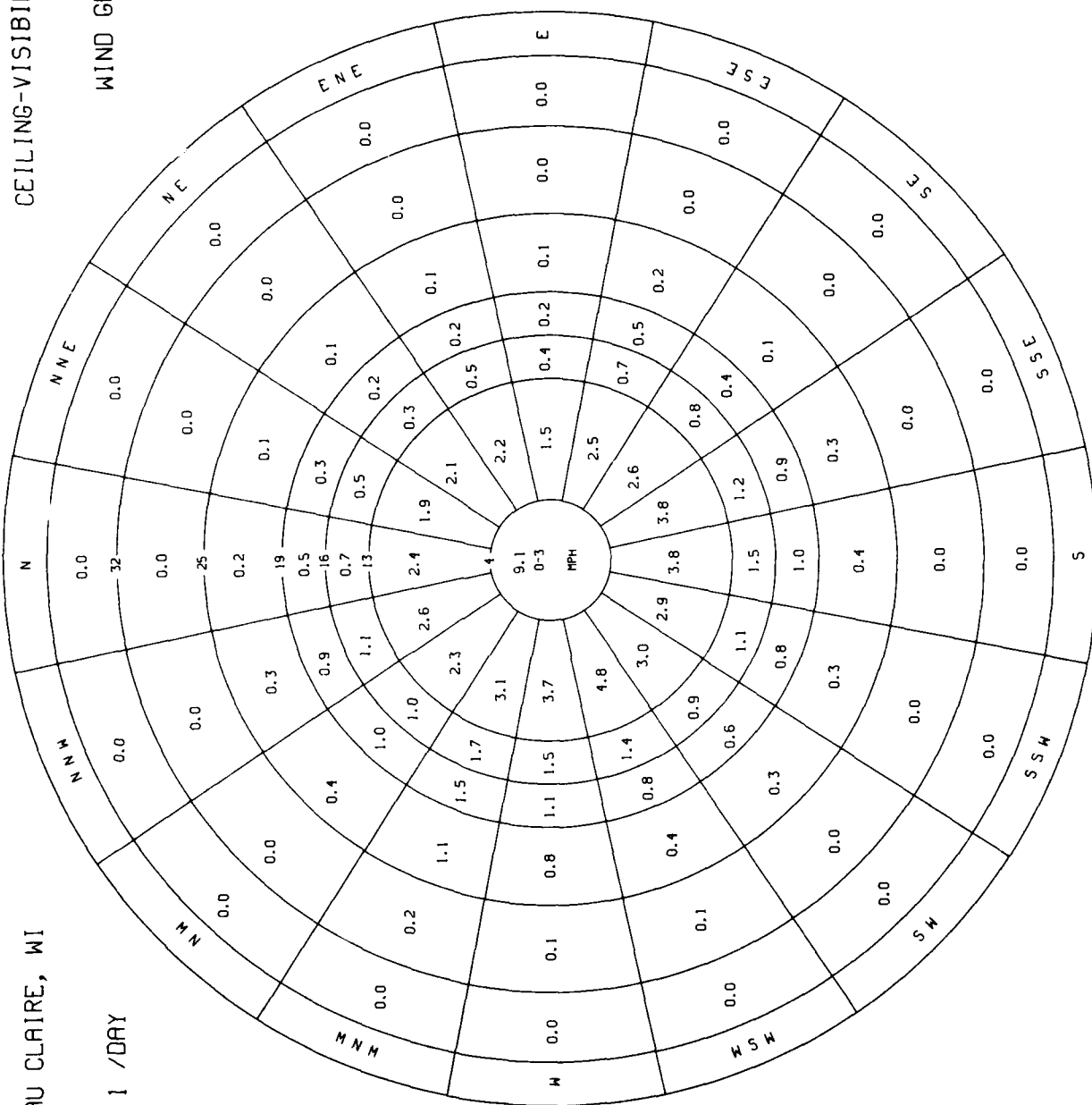
WIND GRAPH

YNG YOUNGSTOWN, OH

CLASS 7



CEILING-VISIBILITY
WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: EAU EAU CLAIRE, WI

PERIOD: 1950-1978

CLASS 1 / DAY

STATION NUMBER: 14991

NO. OBS.: 39634

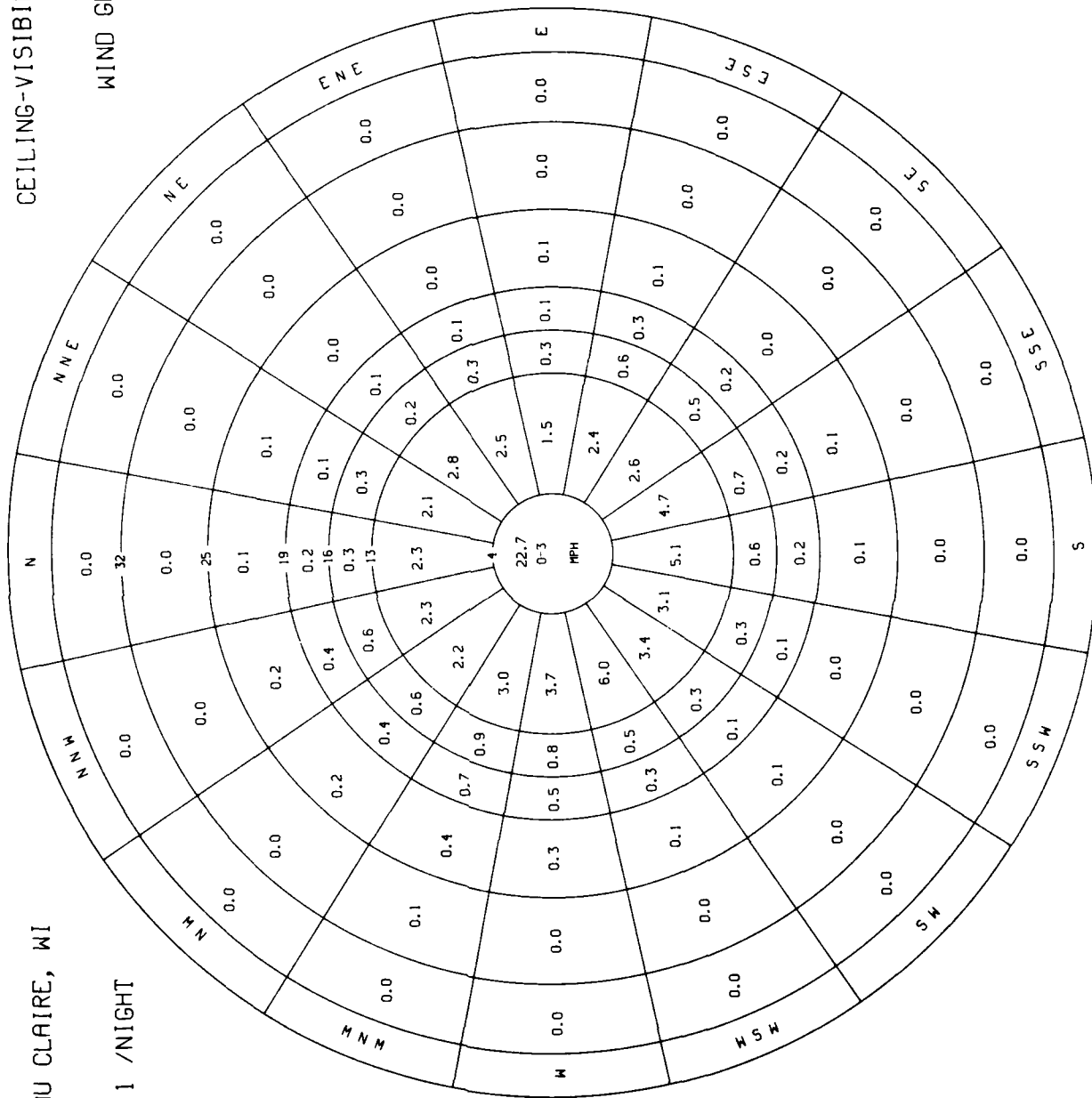
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED			
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C	D
N	.3	.3	2.4	2.8	.7	.8	.5	.6	.2	.3	.0	.0	.0	.0	.0	4.1	4.8	10.9
NNE	.3	.3	1.9	2.2	.5	.6	.3	.4	.1	.1	.0	.0	.0	.0	.0	3.1	3.6	9.9
NENE	.3	.3	2.1	2.5	.3	.4	.2	.2	.1	.1	.0	.0	.0	.0	.0	3.0	3.4	8.8
ENE	.3	.4	2.2	2.6	.5	.5	.2	.2	.1	.1	.0	.0	.0	.0	.0	3.3	3.8	9.2
E	.2	.3	1.5	1.7	.4	.5	.2	.2	.1	.1	.0	.0	.0	.0	.0	2.4	2.8	9.9
ESE	.2	.2	2.5	2.9	.7	.8	.5	.5	.2	.2	.0	.0	.0	.0	.0	4.1	4.7	10.8
SE	.3	.3	2.6	3.0	.8	.9	.4	.5	.1	.2	.0	.0	.0	.0	.0	4.2	4.9	10.5
SSE	.3	.3	3.8	4.4	1.2	1.4	.9	1.0	.3	.4	.0	.0	.0	.0	.0	6.6	7.6	11.4
S	.3	.3	3.8	4.4	1.5	1.7	1.0	1.1	.4	.5	.0	.0	.0	.0	.0	6.9	8.0	11.5
SSW	.3	.3	2.9	3.4	1.1	1.2	.8	.9	.3	.4	.0	.0	.0	.0	.0	5.4	6.2	11.5
SW	.3	.3	3.0	3.5	.9	1.1	.6	.7	.3	.3	.0	.0	.0	.0	.0	5.1	5.9	10.9
WSW	.4	.4	4.8	5.5	1.4	1.6	.8	1.0	.4	.5	.1	.1	.0	.0	.0	7.9	9.1	10.9
W	.3	.3	3.7	4.3	1.5	1.7	1.1	1.3	.8	.9	.1	.2	.0	.0	.0	7.6	8.8	12.5
WNW	.2	.3	3.1	3.6	1.7	2.0	1.5	1.7	1.1	1.3	.2	.2	.0	.0	.0	7.9	9.2	13.7
NW	.2	.2	2.3	2.7	1.0	1.2	1.0	1.1	.4	.5	.0	.1	.0	.0	.0	4.9	5.7	12.6
NNW	.2	.2	2.6	3.0	1.1	1.3	.9	1.0	.3	.4	.0	.0	.0	.0	.0	5.1	5.9	12.1
CALM	4.8	5.6														4.8	5.6	
TOTAL	9.1	10.5	45.4	52.5	15.2	17.6	10.8	12.4	5.2	6.0	.6	.7	.1	.1	.1	86.4	100	10.8

CEILING-VISIBILITY

WIND GRAPH

EAU EAU CLAIRE, WI

CLASS 1 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: EAU EAU CLAIRE, WI

PERIOD: 1950-1978

CLASS 1 / NIGHT

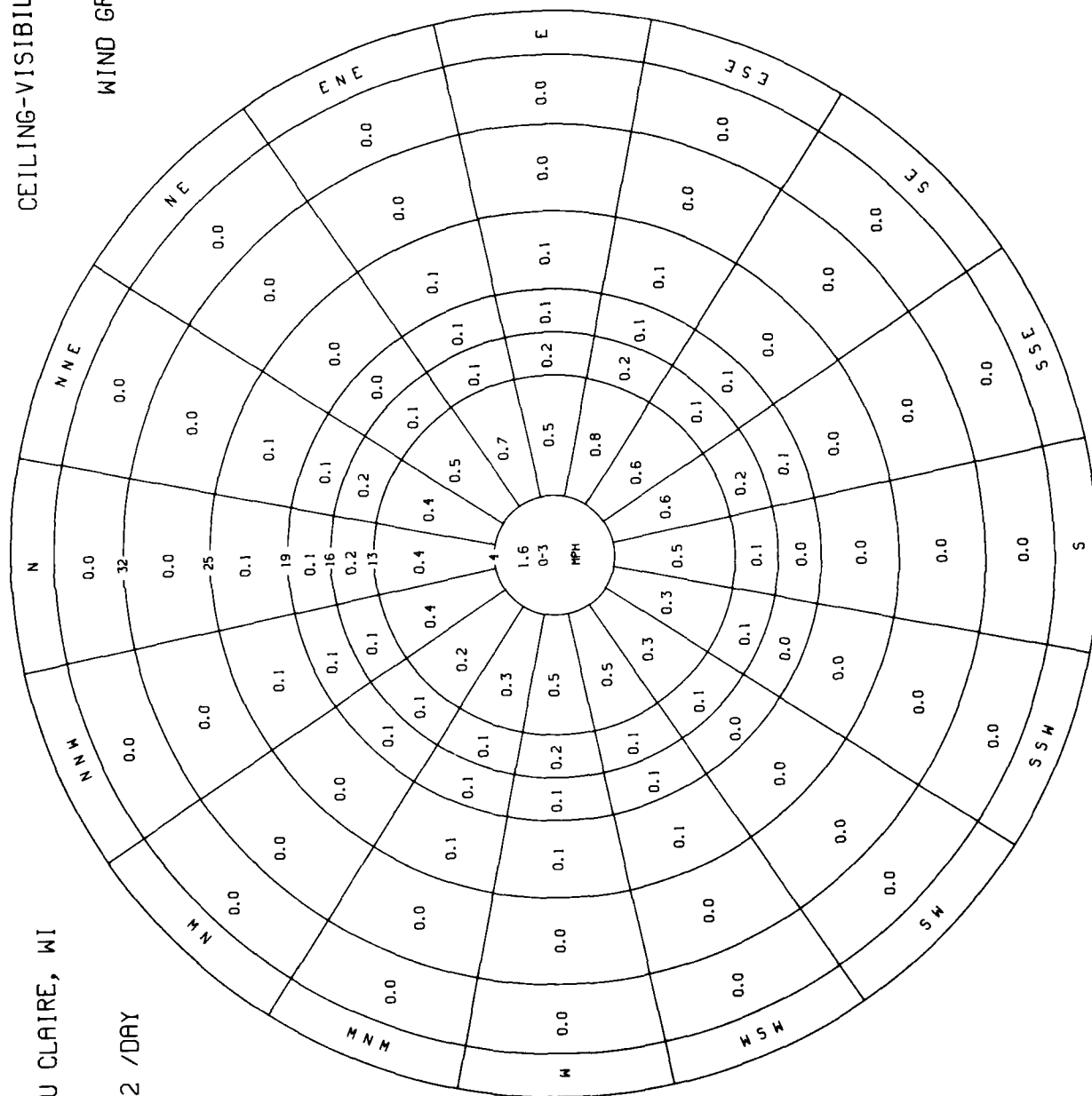
STATION NUMBER: 14991

NO. OBS.: 33673

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.4	.5	2.3	2.7	.3	.3	.2	.2	.1	.1	.0	.0	.0	.0	3.3 3.8
NNE	.5	.6	2.1	2.5	.3	.4	.1	.1	.1	.1	.0	.0	.0	.0	3.2 3.7
NE	.5	.6	2.8	3.2	.2	.3	.1	.1	.0	.1	.0	.0	.0	.0	3.7 4.3
ENE	.7	.8	2.5	2.8	.3	.3	.1	.1	.0	.0	.0	.0	.0	.0	3.6 4.1
E	.4	.5	1.5	1.8	.3	.4	.1	.2	.1	.1	.0	.0	.0	.0	2.5 2.8
ESE	.4	.5	2.4	2.8	.6	.7	.3	.3	.1	.1	.0	.0	.0	.0	3.8 4.4
SE	.4	.5	2.6	3.0	.5	.6	.2	.2	.0	.1	.0	.0	.0	.0	3.8 4.4
SSE	.6	.7	4.7	5.4	.7	.8	.2	.3	.1	.1	.0	.0	.0	.0	6.3 7.3
S	.7	.8	5.1	5.9	.6	.7	.2	.2	.1	.1	.0	.0	.0	.0	6.6 7.7
SSW	.7	.8	3.1	3.5	.3	.4	.1	.2	.0	.0	.0	.0	.0	.0	4.3 5.0
SW	.8	1.0	3.4	3.9	.3	.3	.1	.2	.1	.1	.0	.0	.0	.0	4.7 5.5
WSW	.9	1.0	6.0	6.9	.5	.6	.3	.3	.1	.1	.0	.0	.0	.0	7.8 9.0
W	.4	.4	3.7	4.3	.8	.9	.5	.6	.3	.4	.0	.1	.0	.0	5.8 6.7
WNW	.3	.4	3.0	3.4	.9	1.0	.7	.8	.4	.5	.1	.1	.0	.0	5.4 6.3
NW	.3	.4	2.2	2.6	.6	.7	.4	.5	.2	.3	.0	.0	.0	.0	3.8 4.4
NNW	.4	.4	2.3	2.7	.6	.7	.4	.5	.2	.2	.0	.0	.0	.0	4.0 4.6
CALM	14.1	16.2													14.1 16.2
TOTAL	22.7	26.1	49.8	57.4	7.9	9.1	4.2	4.9	1.9	2.2	.2	.3	.0	.0	86.8 100
															7.4

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME:EAU EAU CLAIRE, WI

PERIOD: 1950-1978

CLASS 2 / DAY

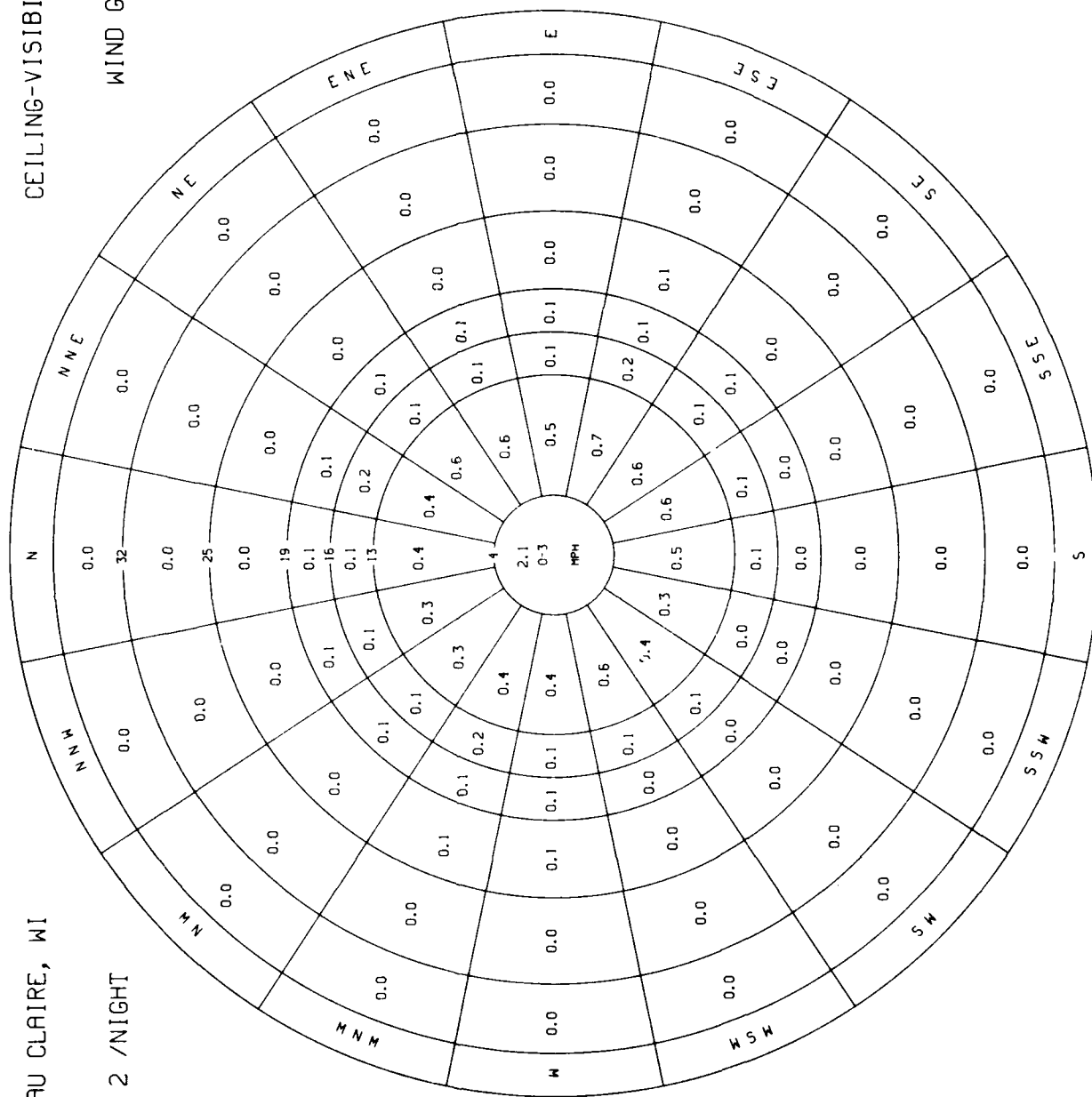
STATION NUMBER: 14991

NO. OBS.: 6253

D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.3	.4	3.1	.2	1.1	.1	.7	.1	.5	.0	.0	.0	.0	.8	5.9	11.4
NNE	.1	.4	.4	3.2	.2	1.1	.1	1.1	.1	.5	.0	.0	.0	.0	.9	6.3	11.8
NE	.1	.4	.5	3.6	.1	.8	.0	.4	.0	.3	.0	.0	.0	.0	.7	5.4	9.8
ENE	.1	.6	.7	4.8	.1	1.0	.1	.8	.1	.4	.0	.0	.0	.0	1.0	7.7	10.5
E	.0	.3	.5	3.8	.2	1.5	.1	.8	.1	.4	.0	.0	.0	.0	.9	6.8	11.3
ESE	.1	.4	.8	5.7	.2	1.6	.1	1.0	.1	.6	.0	.0	.0	.0	1.3	9.4	11.2
SE	.0	.2	.6	4.2	.1	1.0	.1	.8	.0	.2	.0	.0	.0	.0	.9	6.4	10.7
SSE	.0	.3	.6	4.6	.2	1.2	.1	.5	.0	.1	.0	.0	.0	.0	.9	6.7	10.4
S	.0	.1	.5	3.5	.1	.9	.0	.3	.0	.2	.0	.0	.0	.0	.7	5.0	10.3
SSW	.0	.4	.3	2.1	.1	.5	.0	.2	.0	.2	.0	.1	.0	.0	.5	3.4	10.0
SW	.0	.2	.3	2.4	.1	.4	.0	.2	.0	.2	.0	.0	.0	.0	.5	3.5	9.8
WSW	.0	.3	.5	3.6	.1	.6	.1	.8	.1	.4	.0	.1	.0	.1	.8	5.9	11.3
W	.0	.3	.5	3.3	.2	1.3	.1	.9	.1	.7	.0	.1	.0	.0	.9	6.7	12.4
WNW	.0	.2	.3	2.4	.1	.9	.1	.9	.1	.8	.0	.2	.0	.0	.7	5.4	13.4
NW	.0	.2	.2	1.8	.1	.8	.1	.6	.0	.2	.0	.0	.0	.0	.5	3.6	12.1
NNW	.0	.1	.4	2.7	.1	1.1	.1	.8	.1	.5	.0	.1	.0	.0	.7	5.3	12.7
CALM	.9	6.7													.9	6.7	
TOTAL	1.6	11.4	7.5	54.8	2.2	15.9	1.5	10.7	.8	6.1	.1	.9	.0	.2	13.6	100	10.5

EAU EAU CLAIRE, WI

CLASS 2 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: EAU EAU CLAIRE, WI

PERIOD: 1950-1978

CLASS 2 / NIGHT

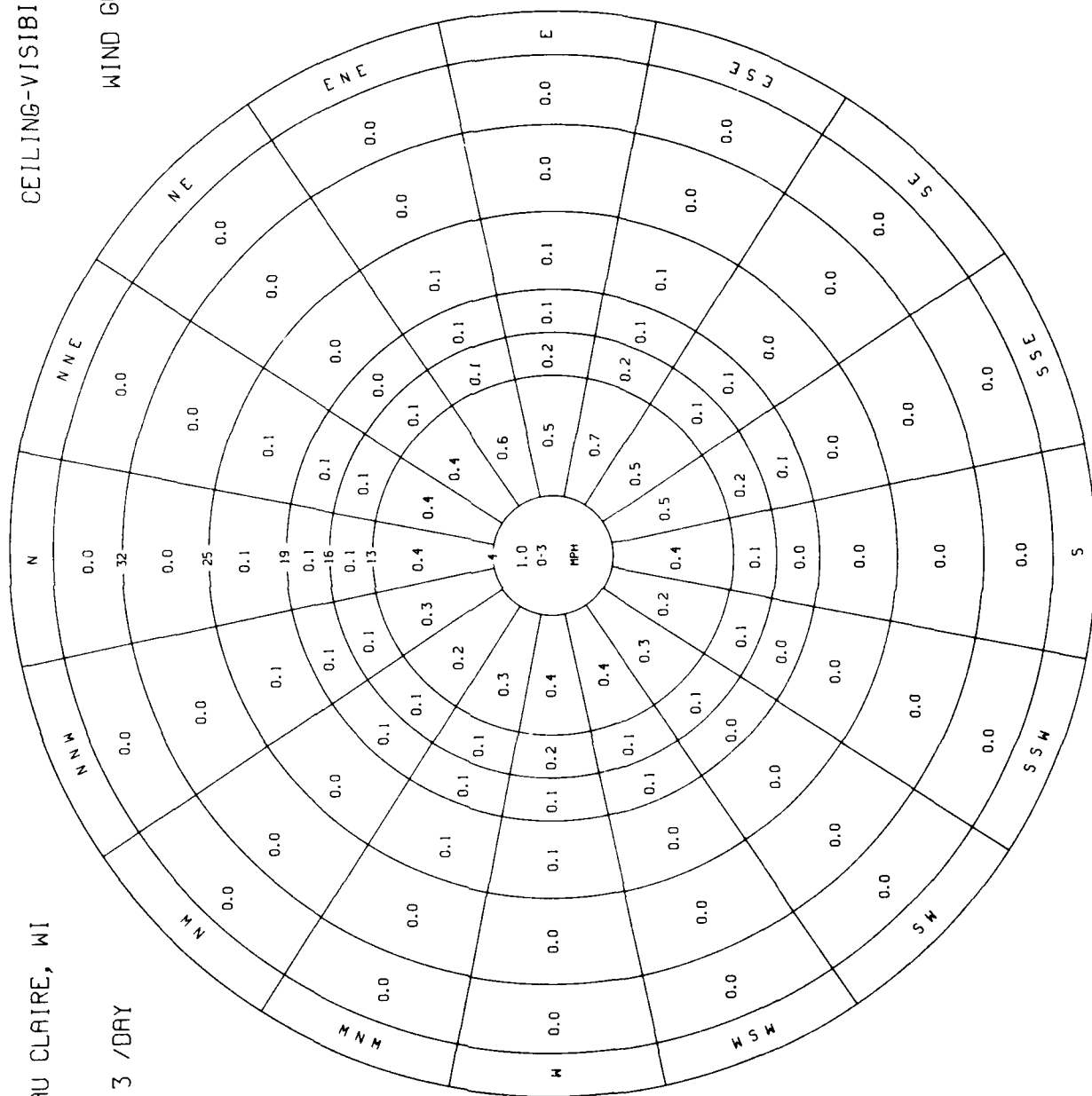
STATION NUMBER: 14991

NO. OBS.: 5108

D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.4	.4	3.2	.1	.8	.1	.6	.0	.2	.0	.1	.0	.0	.7	5.2	10.3
NNE	.1	.6	.4	3.4	.2	1.3	.1	.8	.0	.4	.0	.0	.0	.0	.9	6.5	10.7
NE	.1	.6	.6	4.4	.1	.8	.1	.5	.0	.2	.0	.0	.0	.0	.8	6.4	9.0
ENE	.1	.8	.6	4.5	.1	.9	.1	.5	.0	.3	.0	.0	.0	.0	.9	7.0	9.3
E	.0	.4	.5	4.1	.1	1.1	.1	.6	.0	.2	.0	.1	.0	.0	.8	6.3	10.1
ESE	.0	.4	.7	5.4	.2	1.4	.1	.8	.1	.6	.0	.1	.0	.0	1.1	8.7	10.8
SE	.0	.4	.6	4.3	.1	.9	.1	.5	.0	.2	.0	.0	.0	.0	.8	6.2	9.9
SSE	.0	.4	.6	4.2	.1	.6	.0	.3	.0	.1	.0	.0	.0	.0	.7	5.6	9.0
S	.1	.4	.5	4.2	.1	.6	.0	.1	.0	.1	.0	.0	.0	.0	.7	5.3	8.9
SSW	.0	.4	.3	2.5	.0	.3	.0	.1	.0	.0	.0	.0	.0	.0	.4	3.3	8.3
SW	.0	.3	.4	2.7	.1	.4	.0	.3	.0	.1	.0	.0	.0	.0	.5	3.9	9.0
WSW	.1	.4	.6	4.3	.1	.7	.0	.4	.0	.2	.0	.1	.0	.0	.8	6.1	9.7
W	.0	.4	.4	3.3	.1	.9	.1	.7	.1	.5	.0	.1	.0	.1	.8	6.0	11.6
WNW	.0	.3	.4	2.9	.2	1.2	.1	.7	.1	.4	.0	.2	.0	.0	.7	5.7	12.0
NW	.0	.2	.3	2.1	.1	.6	.1	.4	.0	.2	.0	.1	.0	.0	.5	3.6	11.0
NNW	.0	.3	.3	2.5	.1	.6	.1	.4	.0	.4	.0	.1	.0	.0	.6	4.3	11.2
CALM	1.3	9.8													1.3	9.8	
TOTAL	2.1	16.2	7.6	58.0	1.7	13.1	1.0	7.8	.5	3.8	.1	.9	.0	.2	13.2	100	9.1

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME:EAU EAU CLAIRE, WI

PERIOD:1950-1978

CLASS 3 / DAY

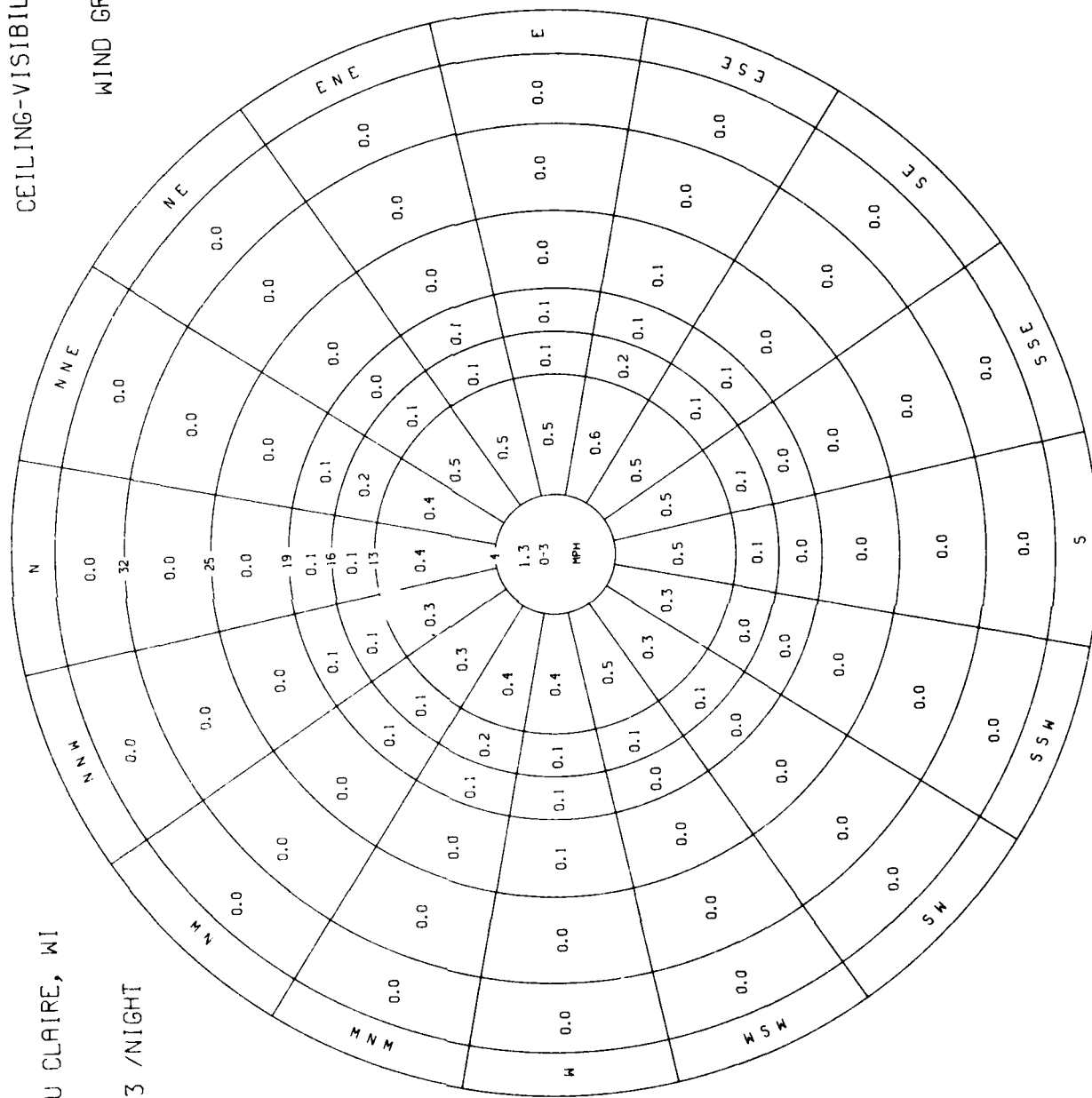
STATION NUMBER:14991

NO. OBS.: 5451

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.3	.4	3.2	.1	1.2	.1	.8	.1	.5	.0	.0	.0	.0	.7 6.0 11.5
NNE	.0	.2	.4	3.0	.1	1.2	.1	1.0	.1	.4	.0	.0	.0	.0	.7 5.8 11.9
NE	.1	.4	.4	3.3	.1	.8	.0	.3	.0	.2	.0	.0	.0	.0	.6 5.2 9.8
ENE	.1	.5	.6	4.7	.1	1.0	.1	.7	.1	.4	.0	.0	.0	.0	.9 7.4 10.6
E	.0	.3	.5	4.0	.2	1.4	.1	.9	.1	.5	.0	.0	.0	.0	.8 7.1 11.3
ESE	.0	.4	.7	6.1	.2	1.7	.1	1.0	.1	.7	.0	.0	.0	.0	1.2 10.0 11.3
SE	.0	.1	.5	4.3	.1	1.1	.1	.9	.0	.1	.0	.0	.0	.0	.8 6.6 11.0
SSE	.0	.3	.5	4.5	.2	1.3	.1	.6	.0	.1	.0	.0	.0	.0	.8 6.8 10.7
S	.0	.1	.4	3.5	.1	1.0	.0	.3	.0	.2	.0	.0	.0	.0	.6 5.2 10.6
SSW	.0	.3	.2	2.1	.1	.6	.0	.2	.0	.2	.0	.1	.0	.0	.4 3.4 10.4
SW	.0	.2	.3	2.3	.1	.5	.0	.2	.0	.2	.0	.0	.0	.0	.4 3.5 10.3
WSW	.0	.2	.4	3.6	.1	.7	.1	.8	.0	.4	.0	.1	.0	.1	.7 5.9 11.6
W	.0	.2	.4	3.4	.2	1.5	.1	1.0	.1	.8	.0	.2	.0	.0	.8 7.1 12.7
WNW	.0	.2	.3	2.7	.1	1.0	.1	1.0	.1	.8	.0	.1	.0	.0	.7 5.9 13.4
NW	.0	.2	.2	2.0	.1	.9	.1	.7	.0	.2	.0	.1	.0	.0	.5 4.0 12.3
NNW	.0	.1	.3	2.9	.1	1.2	.1	.9	.1	.6	.0	.1	.0	.0	.7 5.7 12.8
CALM	.5	4.5													.5 4.5
TOTAL	1.0	8.5	6.6	55.5	2.0	17.2	1.4	11.4	.8	6.3	.1	.8	.0	.2	11.9 100 10.9

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: EAU EAU CLAIRE, WI

PERIOD: 1950-1978

CLASS 3 / NIGHT

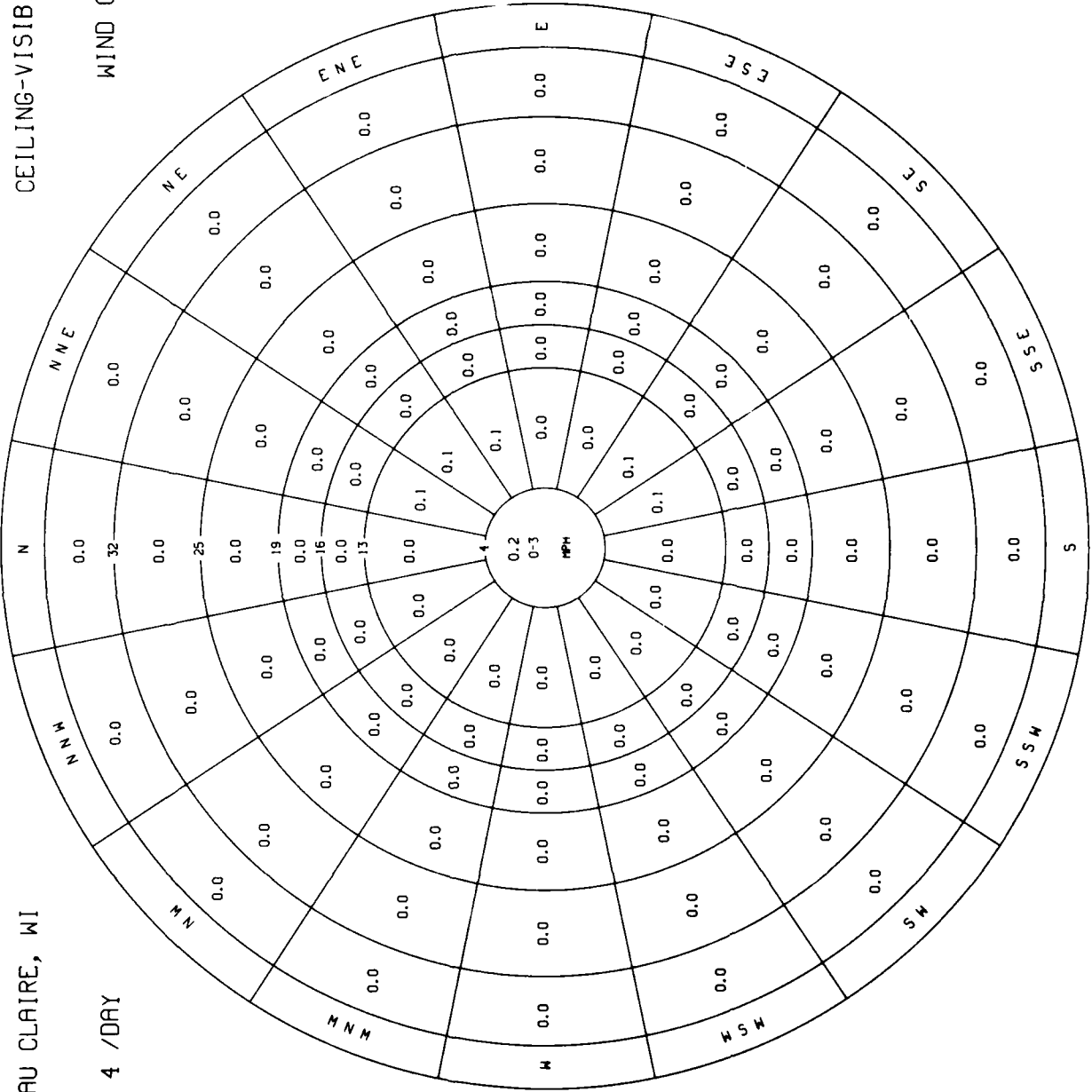
STATION NUMBER: 14991

NO. OBS.: 4243

D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.3	.4	3.5	.1	.9	.1	.6	.0	.1	.0	.0	.0	.0	.6	5.5	10.2
NNE	.1	.5	.4	3.4	.2	1.4	.1	.8	.0	.3	.0	.0	.0	.0	.7	6.5	10.9
NNE	.1	.5	.5	4.1	.1	.8	.0	.4	.0	.2	.0	.0	.0	.0	.7	6.1	9.1
ENE	.1	.7	.5	4.5	.1	.9	.1	.6	.0	.3	.0	.0	.0	.0	.8	6.9	9.5
E	.0	.4	.5	4.2	.1	1.3	.1	.7	.0	.1	.0	.0	.0	.0	.7	6.7	10.2
ESE	.0	.3	.6	5.8	.2	1.6	.1	.9	.1	.6	.0	.1	.0	.0	1.0	9.2	11.0
SE	.0	.3	.5	4.4	.1	1.0	.1	.6	.0	.2	.0	.0	.0	.0	.7	6.5	10.1
SSE	.0	.3	.5	4.4	.1	.8	.0	.3	.0	.1	.0	.0	.0	.0	.6	5.8	9.2
S	.0	.3	.5	4.4	.1	.7	.0	.1	.0	.1	.0	.0	.0	.0	.6	5.6	9.2
SSW	.0	.2	.3	2.6	.0	.3	.0	.1	.0	.0	.0	.0	.0	.0	.4	3.3	8.8
SW	.0	.3	.3	2.6	.1	.5	.0	.4	.0	.1	.0	.0	.0	.0	.4	3.9	9.7
WSW	.0	.4	.5	4.4	.1	.8	.0	.4	.0	.2	.0	.0	.0	.0	.7	6.3	9.9
W	.0	.3	.4	3.5	.1	1.0	.1	.8	.1	.5	.0	.1	.0	.1	.7	6.4	11.8
WNW	.0	.3	.4	3.3	.2	1.4	.1	.8	.0	.4	.0	.2	.0	.0	.7	6.3	12.0
NW	.0	.2	.3	2.5	.1	.7	.1	.5	.0	.2	.0	.0	.0	.0	.4	4.0	10.9
NNW	.0	.3	.3	2.6	.1	.7	.1	.5	.0	.4	.0	.0	.0	.0	.5	4.5	11.2
CALM	.7	6.6													.7	6.6	
TOTAL	1.3	11.9	6.6	60.1	1.6	14.7	.9	8.6	.4	3.8	.1	.7	.0	.1	10.9	100	9.6

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME:EAU EAU CLAIRE, WI

PERIOD:1950-1978

CLASS 4 / DAY

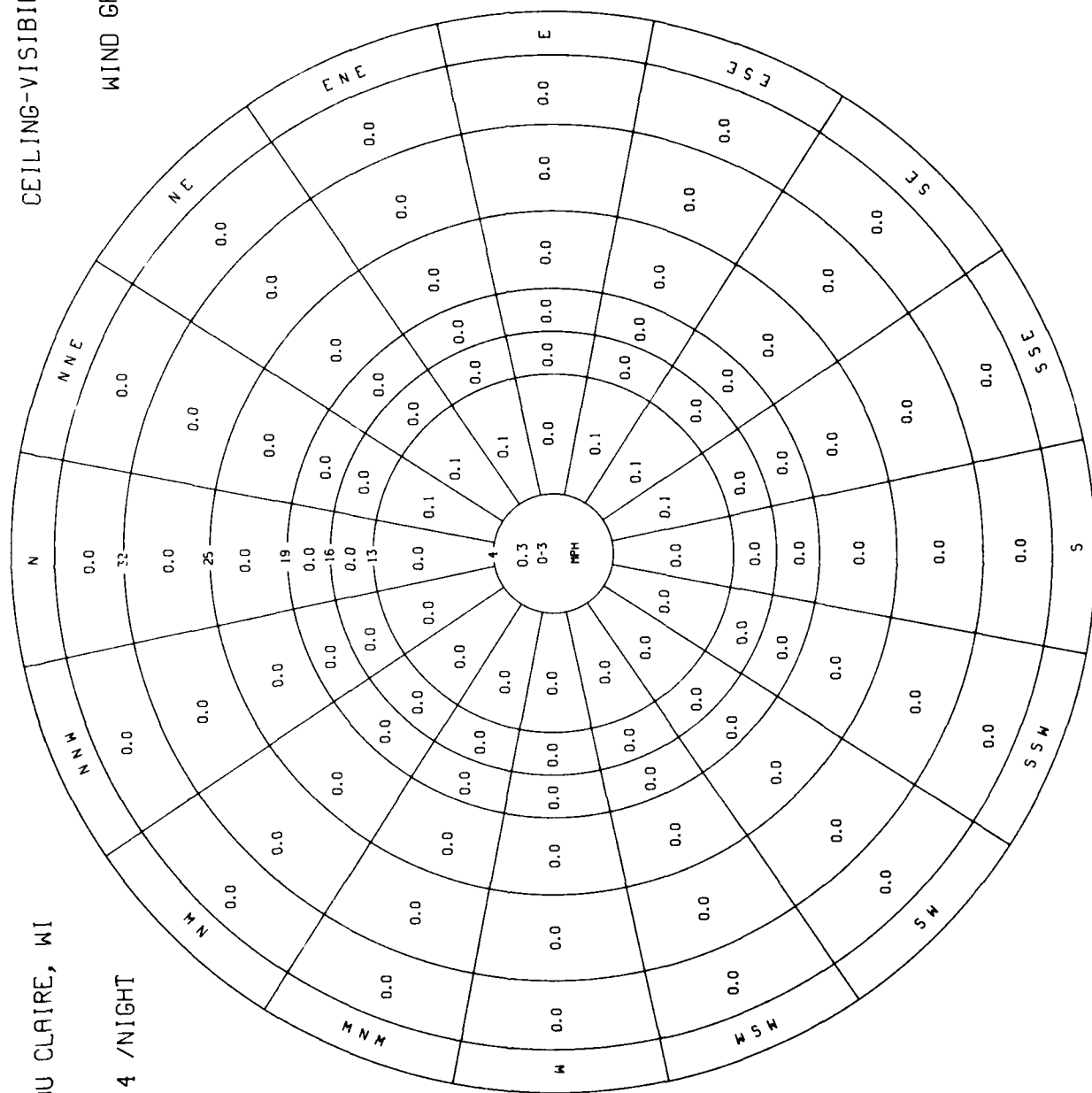
STATION NUMBER:14991

NO. OBS.: 463

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.0	.6	.0	3.5	.0	1.3	.0	.6	.0	.4	.0	.0	.0	.0	.1	6.5	10.8
NNE	.0	1.1	.1	5.4	.0	1.1	.0	2.4	.0	1.3	.0	.2	.0	.0	.1	11.4	12.1
NE	.0	.4	.1	5.4	.0	1.3	.0	.4	.0	.9	.0	.0	.0	.0	.1	8.4	10.5
ENE	.0	.9	.1	5.6	.0	1.3	.0	1.7	.0	.6	.0	.0	.0	.0	.1	10.2	10.8
E	.0	.2	.0	1.9	.0	2.8	.0	.9	.0	.0	.0	.0	.0	.0	.1	5.8	11.7
ESE	.0	.2	.0	3.9	.0	1.3	.0	.6	.0	.2	.0	.0	.0	.0	.1	6.3	10.6
SE	.0	.4	.1	5.2	.0	.9	.0	.4	.0	.2	.0	.0	.0	.0	.1	7.1	9.3
SSE	.0	.2	.1	6.3	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.1	6.9	8.8
S	.0	.4	.0	3.5	.0	.2	.0	.0	.0	.4	.0	.0	.0	.0	.0	4.1	7.0
SSW	.0	.6	.0	1.5	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	2.8	9.2
SW	.0	.6	.0	1.9	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	2.8	6.5
WSW	.0	.4	.0	2.4	.0	.2	.0	.2	.0	.2	.0	.4	.0	.0	.0	3.9	11.6
W	.0	.2	.0	2.8	.0	.4	.0	.0	.0	.6	.0	.0	.0	.0	.0	4.1	10.9
WNW	.0	.0	.0	.6	.0	.4	.0	.4	.0	.4	.0	.6	.0	.0	.0	2.6	17.5
NW	.0	.0	.0	.6	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	1.1	11.8
NNW	.0	.0	.0	2.6	.0	.6	.0	.2	.0	.0	.0	.2	.0	.0	.0	3.7	11.6
CALM	.1	12.3													.1	12.3	
TOTAL	.2	18.8	.5	53.1	.1	12.3	.1	8.6	.1	5.6	.0	1.5	.0	.0	1.0	100	9.3

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME:EAU EAU CLAIRE, WI

PERIOD: 1950-1978

CLASS 4 / NIGHT

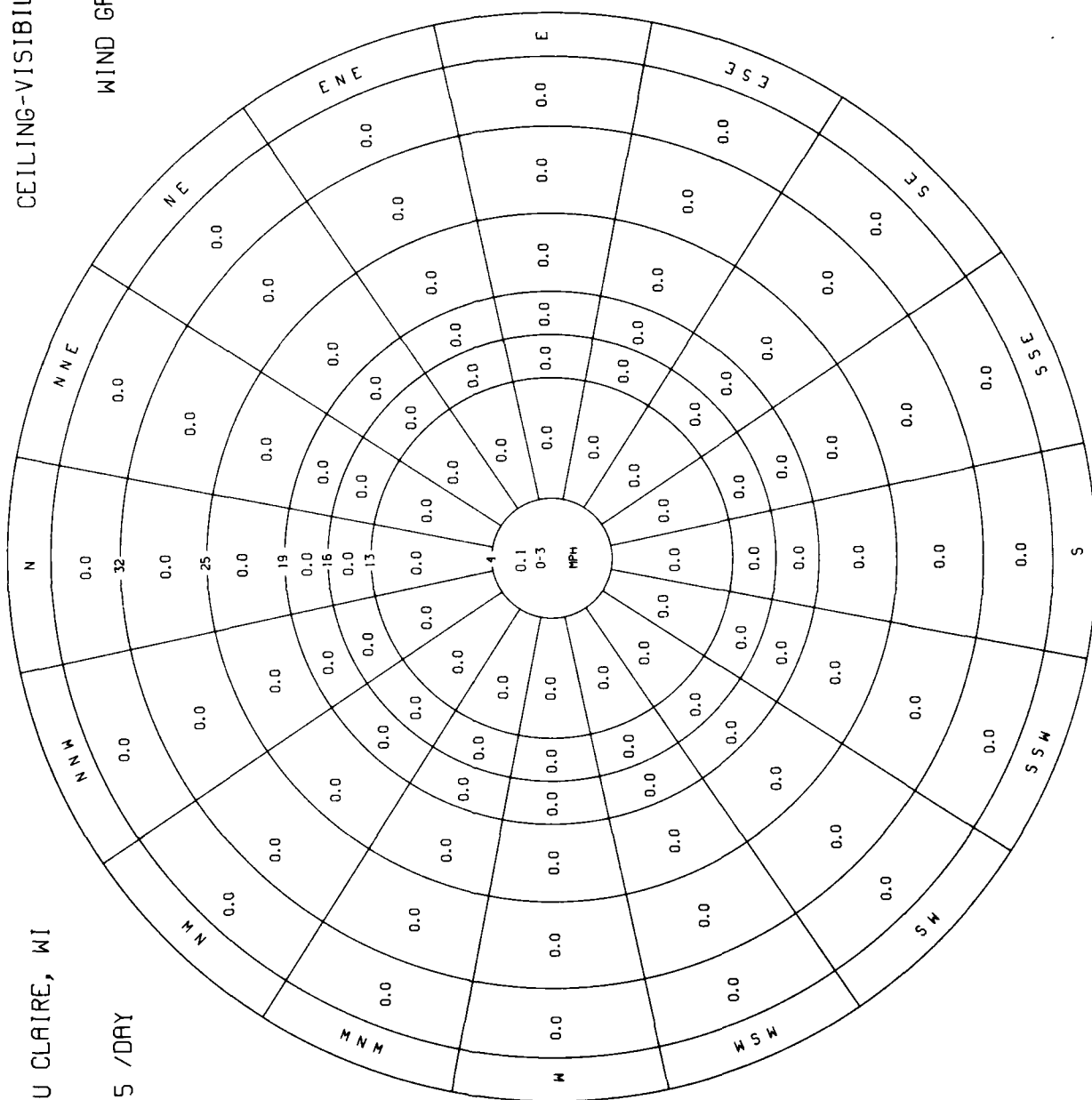
STATION NUMBER: 14991

NO. OBS.: 475

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.6	.0	2.9	.0	.4	.0	.6	.0	.4	.0	.2	.0	.0	.1 5.3
NNE	.0	1.1	.1	4.2	.0	.8	.0	.8	.0	.8	.0	.0	.0	.0	.1 7.8
NE	.0	1.1	.1	5.7	.0	.8	.0	.6	.0	.0	.0	.2	.0	.0	.1 8.4
ENE	.0	.8	.1	6.1	.0	1.5	.0	.2	.0	.2	.0	.0	.0	.0	.1 8.8
E	.0	.4	.0	2.9	.0	.6	.0	.4	.0	.4	.0	.4	.0	.0	.1 5.3
ESE	.0	.6	.1	5.7	.0	.6	.0	.8	.0	.6	.0	.0	.0	.0	.1 8.4
SE	.0	.2	.1	4.4	.0	.8	.0	.2	.0	.2	.0	.0	.0	.0	.1 5.9
SSE	.0	.6	.1	4.4	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.1 5.5
S	.0	.6	.0	3.2	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.1 4.2
SSW	.0	.8	.0	1.7	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.9
SW	.0	.4	.0	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.4
WSW	.0	.4	.0	2.9	.0	.6	.0	.0	.0	.2	.0	.4	.0	.0	.1 4.6
W	.0	.4	.0	1.9	.0	.0	.0	.2	.0	.4	.0	.4	.0	.0	.0 3.4
WNW	.0	.2	.0	1.3	.0	.2	.0	.2	.0	1.1	.0	.0	.0	.0	.0 2.9
NW	.0	.0	.0	.6	.0	.2	.0	.0	.0	.2	.0	.2	.0	.0	.0 1.3
NNW	.0	.6	.0	2.5	.0	.2	.0	.0	.0	.2	.0	.4	.0	.2	.1 4.2
CALM	.2	17.7													.2 17.7
TOTAL	.3	26.7	.7	53.5	.1	8.0	.1	4.4	.1	4.8	.0	2.3	.0	.2	1.2 100
															8.0

CEILING-VISIBILITY

WIND GRAPH



EAU EAU CLAIRE, WI

CLASS 5 /DAY

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME:EAU EAU CLAIRE, WI

PERIOD: 1950-1978

CLASS 5 / DAY

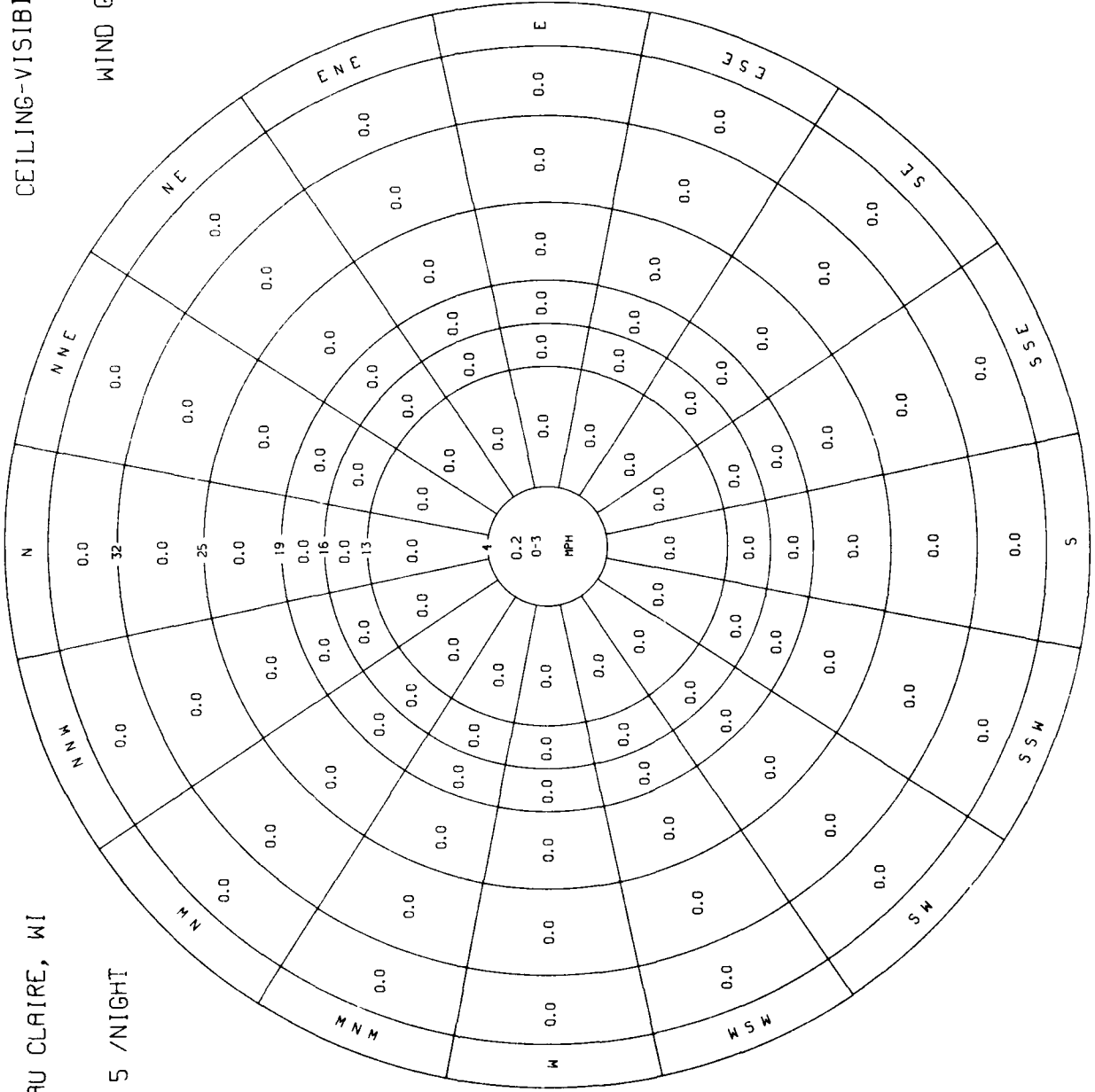
STATION NUMBER:14991

NO. OBS.: 131

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.0	.0	2.3	.0	.0	.0	1.5	.0	.0	.0	.8	.0	.0	.0 4.6
NNE	.0	.8	.0	4.6	.0	.0	.0	1.5	.0	2.3	.0	.0	.0	.0	.0 9.2
NNE	.0	.0	.0	6.9	.0	.8	.0	.8	.0	.8	.0	.0	.0	.0	.0 9.2
ENE	.0	3.1	.0	9.2	.0	.0	.0	1.5	.0	1.5	.0	.0	.0	.0	.0 15.3
E	.0	.8	.0	2.3	.0	.0	.0	.0	.0	1.5	.0	.0	.0	.0	.0 4.6
ESE	.0	.0	.0	4.6	.0	.8	.0	.0	.0	1.5	.0	.0	.0	.0	.0 6.9
SSE	.0	.8	.0	2.3	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0 3.8
SSE	.0	.0	.0	3.8	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0 4.6
S	.0	.8	.0	3.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 4.6
SSW	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.5
SW	.0	.0	.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.1
WSW	.0	1.5	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.3
W	.0	.0	.0	4.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 4.6
WNW	.0	.8	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.5
NW	.0	.8	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.5
NNW	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.0 1.5
CALM	.1	21.4													.1 21.4
TOTAL	.1	30.5	.1	51.9	.0	1.5	.0	6.1	.0	8.4	.0	1.5	.0	.0	.3 100
															7.5

CEILING-VISIBILITY

WIND GRAPH



EAU EAU CLAIRE, WI

CLASS 5 / NIGHT

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME:EAU EAU CLAIRE, WI

PERIOD: 1950-1978

CLASS 5 / NIGHT

STATION NUMBER: 14991

NO. OBS.: 158

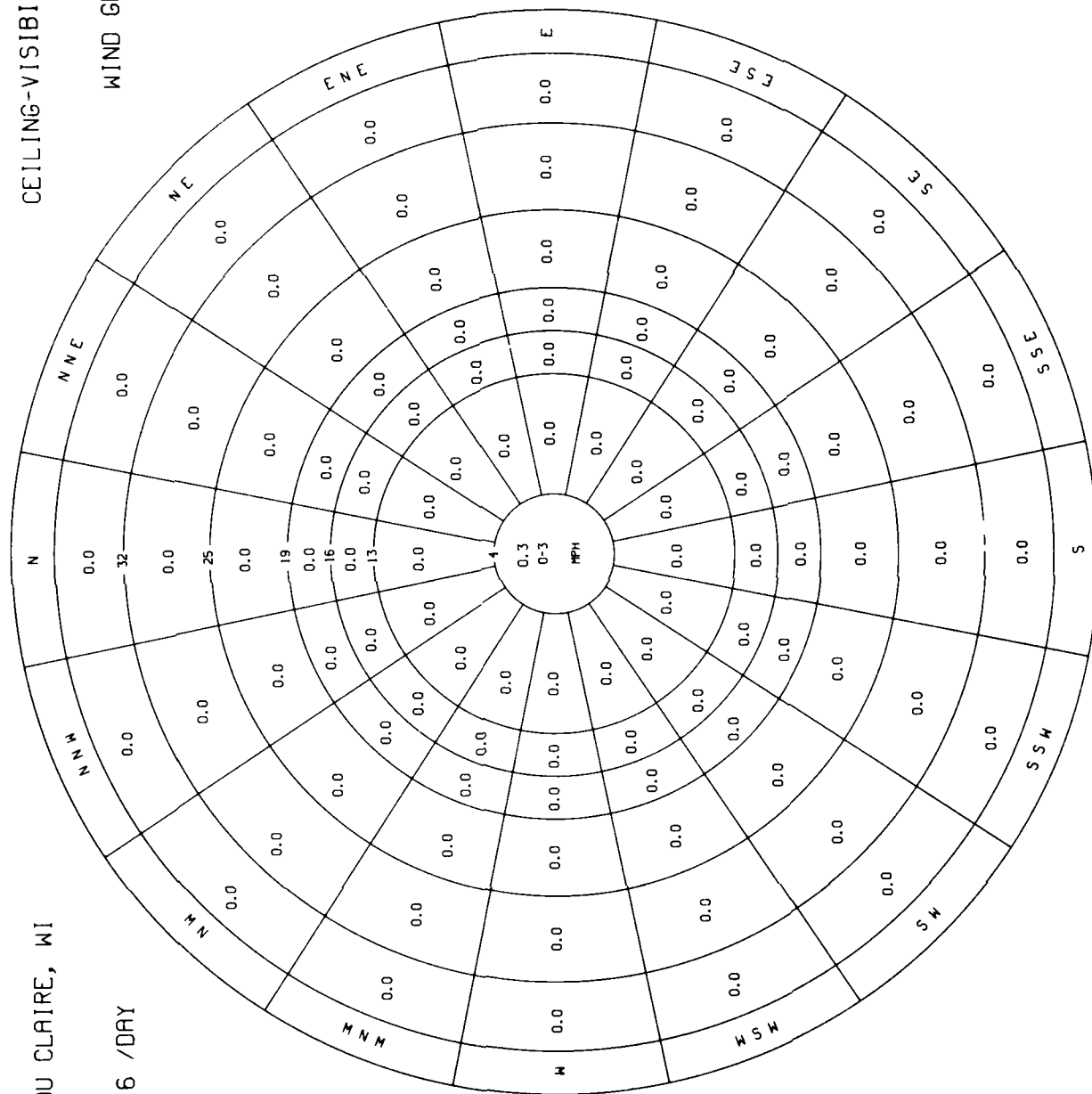
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.6	.0	.6	.0	.0	.0	.6	.0	.6	.0	.6	.0	.0	.0 3.2
NNE	.0	1.9	.0	3.2	.0	.0	.0	2.5	.0	1.3	.0	.0	.0	.0	.0 8.9
NE	.0	.6	.0	4.4	.0	1.3	.0	.6	.0	1.3	.0	.0	.0	.0	.0 8.2
ENE	.0	1.9	.0	3.2	.0	.0	.0	1.3	.0	1.9	.0	.0	.0	.0	.0 8.2
E	.0	.0	.0	4.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 4.4
ESE	.0	.6	.0	1.3	.0	.6	.0	.0	.0	.6	.0	.0	.0	.0	.0 3.2
SE	.0	1.9	.0	5.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 7.6
SSE	.0	.6	.0	1.9	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0 3.2
S	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.9
SSW	.0	.6	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.5
SW	.0	1.9	.0	3.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 5.7
WSW	.0	.0	.0	5.1	.0	.6	.0	.0	.0	.0	.0	.6	.0	.0	.0 6.3
W	.0	.6	.0	.6	.0	.6	.0	.6	.0	.0	.0	.0	.0	.6	.0 3.2
WNW	.0	.0	.0	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0 1.3
NW	.0	.0	.0	.6	.0	.0	.0	.0	.0	.6	.0	.6	.0	.0	.0 1.9
NNW	.0	.6	.0	2.5	.0	.0	.0	.0	.0	.6	.0	.6	.0	.0	.0 4.4
CALM	.1	25.9													.1 25.9
TOTAL	.2	38.0	.2	41.1	.0	3.2	.0	7.6	.0	7.0	.0	2.5	.0	.6	.4 100

CEILING-VISIBILITY

WIND GRAPH

EAU EAU CLAIRE, WI

CLASS 6 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1950-1978

STATION NAME: EAU EAU CLAIRE, WI

CLASS 6 / DAY

NO. OBS.: 208

STATION NUMBER: 14991

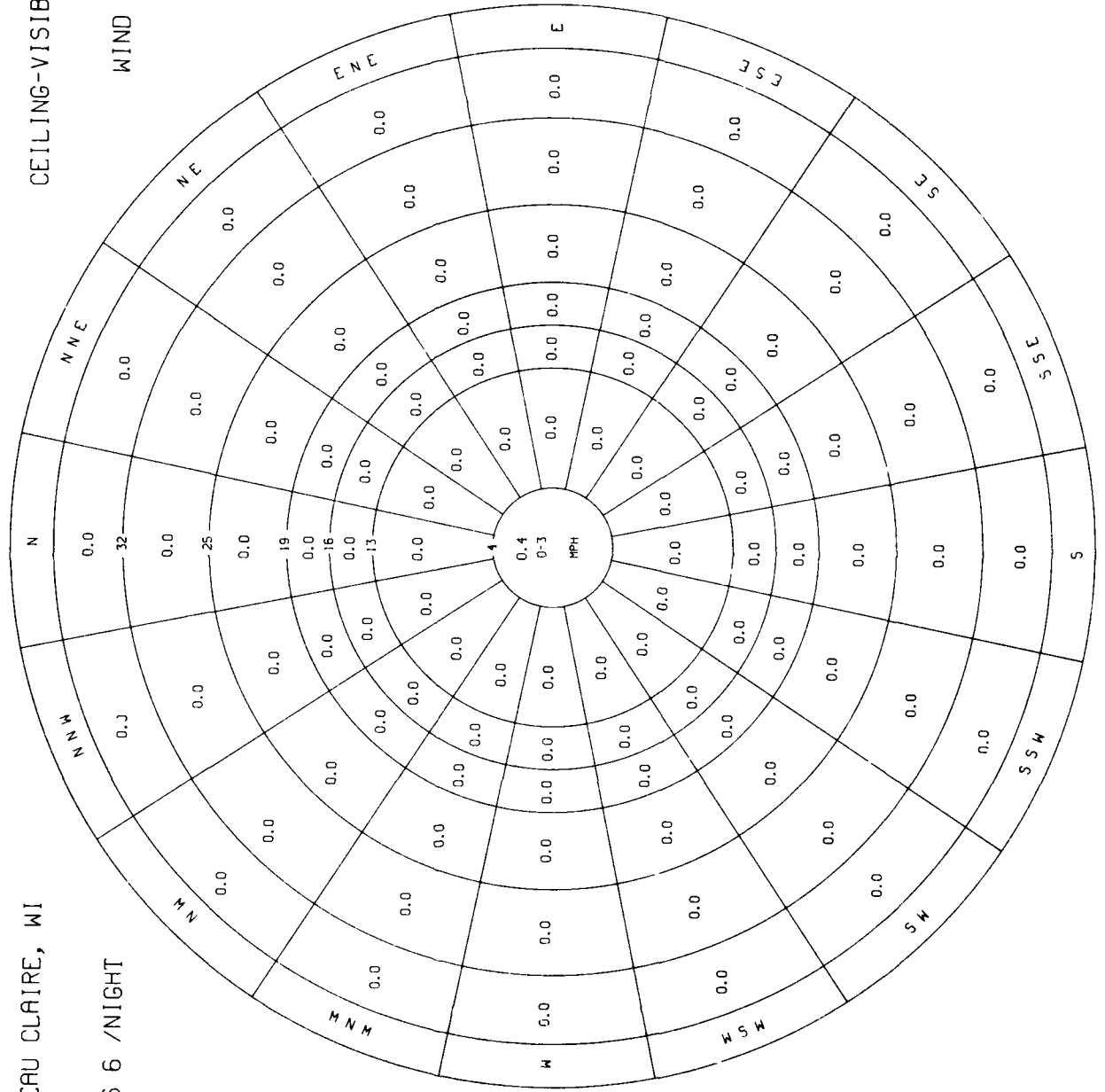
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.4
NNE	.0	2.4	.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 4.8
NE	.0	1.0	.0	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.8
ENE	.0	1.0	.0	3.8	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0 5.3
E	.0	.5	.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.9
ESE	.0	1.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.9
SE	.0	.5	.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.9
SSE	.0	.5	.0	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.4
S	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.9
SSW	.0	1.4	.0	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 4.8
SW	.0	1.0	.0	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 4.8
WSW	.0	1.0	.0	10.1	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0 4.3
W	.0	1.4	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 12.0
WNW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0 3.8
NW	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .0
NNW	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .5
CALM	.2	43.8													.0 1.4
TOTAL	.3	57.2	.2	40.9	.0	.5	.0	.0	.0	.5	.0	.5	.0	.5	.2 43.8
															.5 100
															3.4

EAU EAU CLAIRE, WI

CLASS 6 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME:EAU EAU CLAIRE, WI

PERIOD: 1950-1978

CLASS 6 / NIGHT

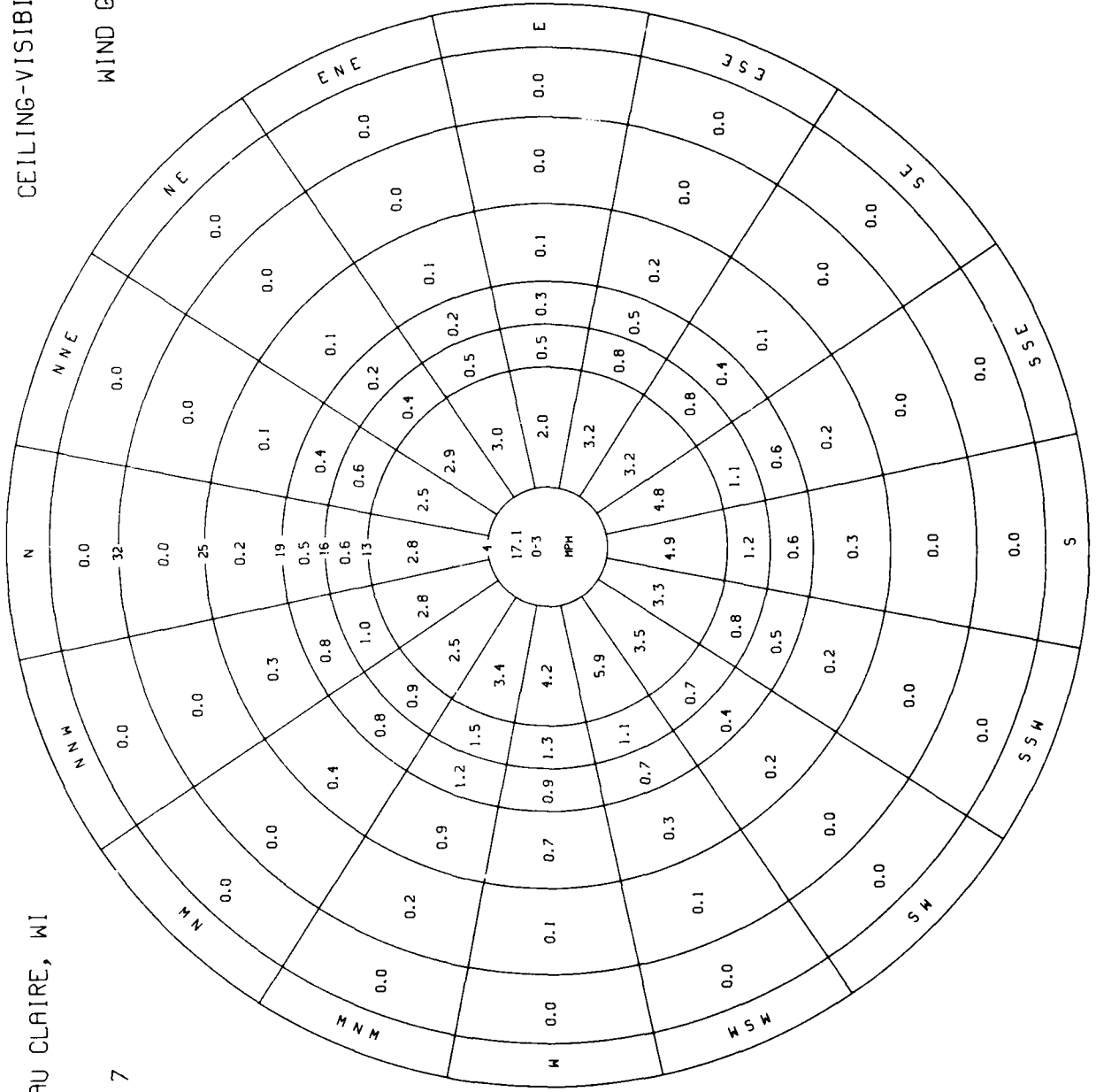
STATION NUMBER: 14991

NO. OBS.: 232

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.4	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.9
NNE	.0	1.7	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6
NE	.0	1.3	.0	5.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.9
ENE	.0	2.6	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.2
E	.0	.0	.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0
ESE	.0	1.7	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6
SSE	.0	.4	.0	1.3	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	2.2
S	.0	2.2	.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0
SSW	.0	1.3	.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.2
SW	.0	.4	.0	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.3
WSW	.0	1.3	.0	5.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.9
W	.0	1.7	.0	4.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.9
WNW	.0	.4	.0	1.3	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	6.0
NW	.0	.9	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2
NNW	.0	.4	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3
CALM	.2	41.4													2.6
TOTAL	.4	58.6	.2	40.1	.0	.4	.0	.9	.0	.0	.0	.0	.0	.6	41.4
															100
															3.1

CEILING-VISIBILITY

WIND GRAPH



EAU EAU CLAIRE, WI

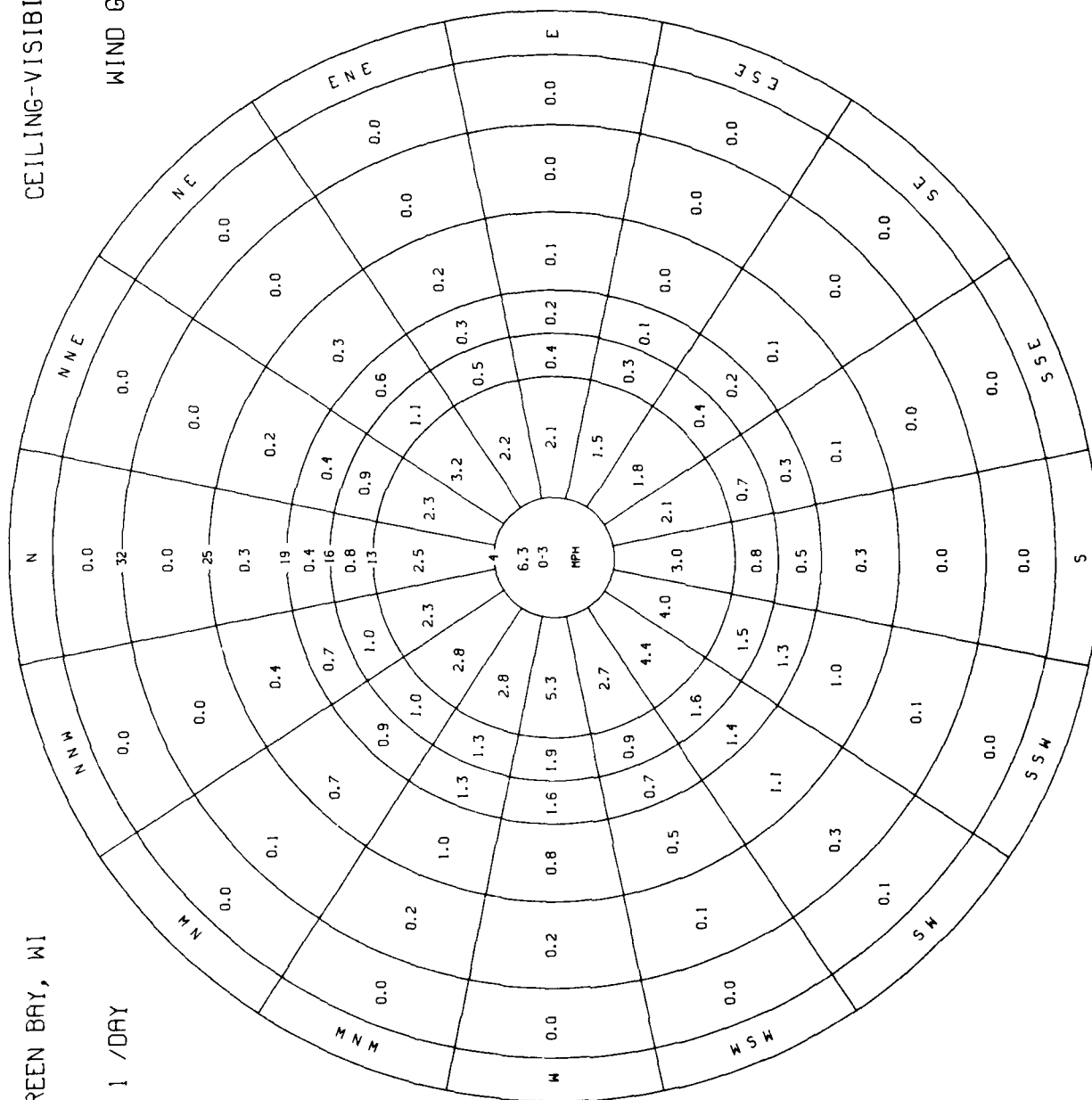
CLASS 7

CEILING-VISIBILITY

WIND GRAPH

GRB GREEN BAY, WI

CLASS 1 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: GRB GREEN BAY, WI

PERIOD: 1950-1978

CLASS 1 / DAY

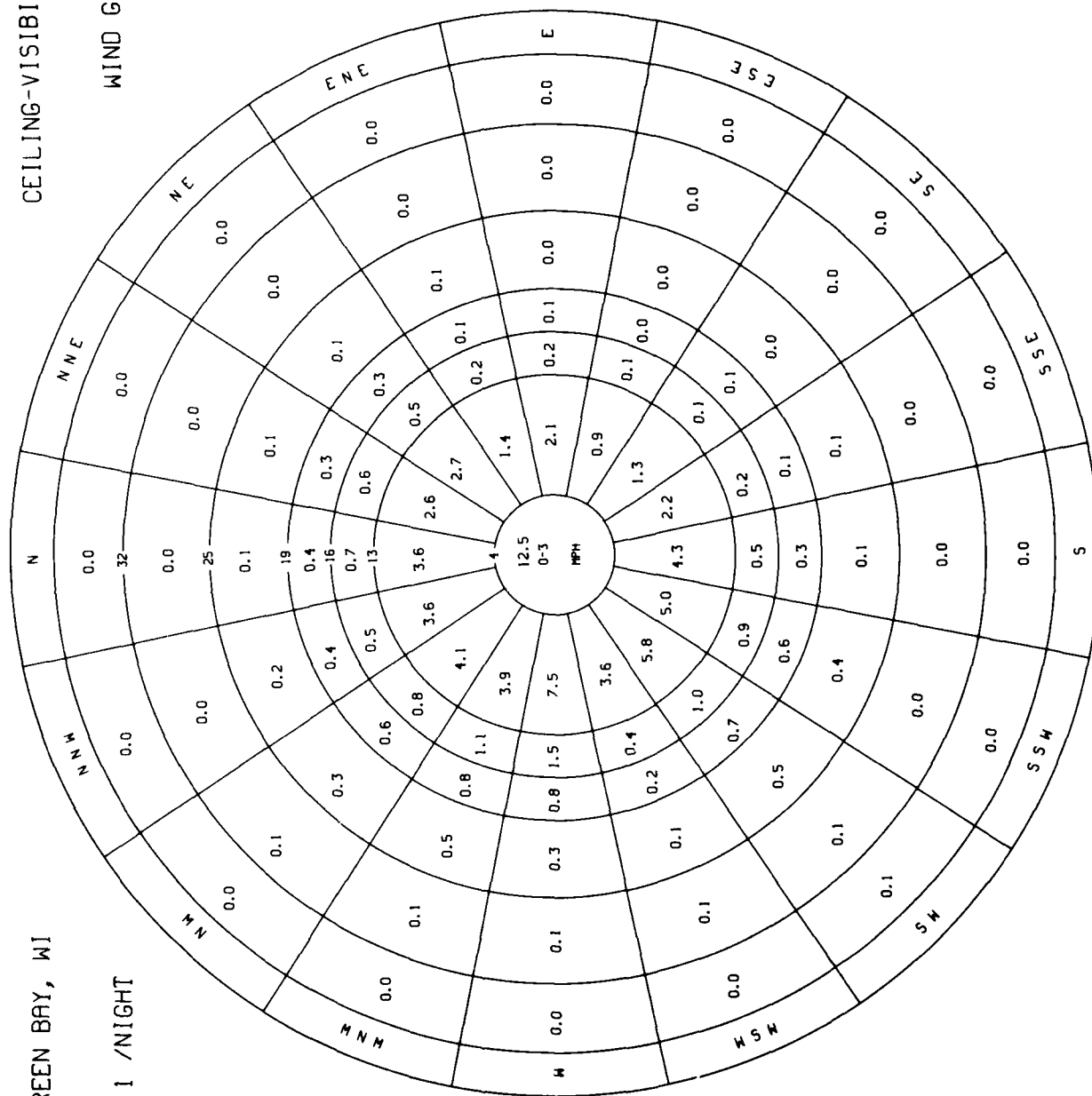
STATION NUMBER: 14898

NO. OBS.: 38783

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D		
N	.3	.3	2.5	2.9	.8	.9	.4	.5	.3	.3	.0	.0	.0	.0	4.3	5.0	10.9
NNE	.2	.2	2.3	2.7	.9	1.0	.4	.5	.2	.3	.0	.0	.0	.0	4.0	4.7	11.2
NE	.4	.5	3.2	3.7	1.1	1.2	.6	.7	.3	.4	.0	.0	.0	.0	5.6	6.5	10.9
ENE	.2	.2	2.2	2.6	.5	.6	.3	.4	.2	.2	.0	.0	.0	.0	3.4	3.9	10.3
E	.3	.3	2.1	2.5	.4	.4	.2	.2	.1	.1	.0	.0	.0	.0	3.0	3.5	9.0
ESE	.2	.2	1.5	1.7	.3	.3	.1	.1	.0	.0	.0	.0	.0	.0	2.0	2.4	9.1
SE	.3	.4	1.8	2.1	.4	.5	.2	.2	.1	.1	.0	.0	.0	.0	2.9	3.3	9.5
SSE	.2	.2	2.1	2.4	.7	.8	.3	.4	.1	.1	.0	.0	.0	.0	3.4	4.0	10.7
S	.4	.4	3.0	3.5	.8	1.0	.5	.6	.3	.3	.0	.0	.0	.0	5.1	5.9	10.5
SSW	.3	.4	4.0	4.7	1.5	1.8	1.3	1.6	1.0	1.2	.1	.2	.0	.0	8.4	9.8	12.6
SW	.6	.7	4.4	5.1	1.6	1.8	1.4	1.7	1.1	1.3	.3	.3	.1	.1	9.5	11.0	12.7
WSW	.3	.3	2.7	3.2	.9	1.1	.7	.8	.5	.5	.1	.1	.0	.0	5.2	6.1	11.9
W	.5	.5	5.3	6.2	1.9	2.3	1.6	1.9	.8	.9	.2	.2	.0	.0	10.3	12.0	12.1
WNW	.2	.2	2.8	3.3	1.3	1.5	1.3	1.5	1.0	1.2	.2	.2	.0	.0	6.8	7.9	13.6
NW	.3	.4	2.8	3.2	1.0	1.1	.9	1.0	.7	.8	.1	.1	.0	.0	5.7	6.7	12.3
NNW	.1	.2	2.3	2.7	1.0	1.1	.7	.8	.4	.5	.0	.0	.0	.0	4.5	5.3	12.1
CALM	1.7	2.0													1.7	2.0	
TOTAL	6.3	7.4	45.2	52.5	15.0	17.5	11.1	12.9	7.1	8.2	1.1	1.3	.2	.2	86.0	100	11.4

GRB GREEN BAY, WI

CLASS 1 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: GRB GREEN BAY, WI

PERIOD: 1950-1978

CLASS 1 / NIGHT

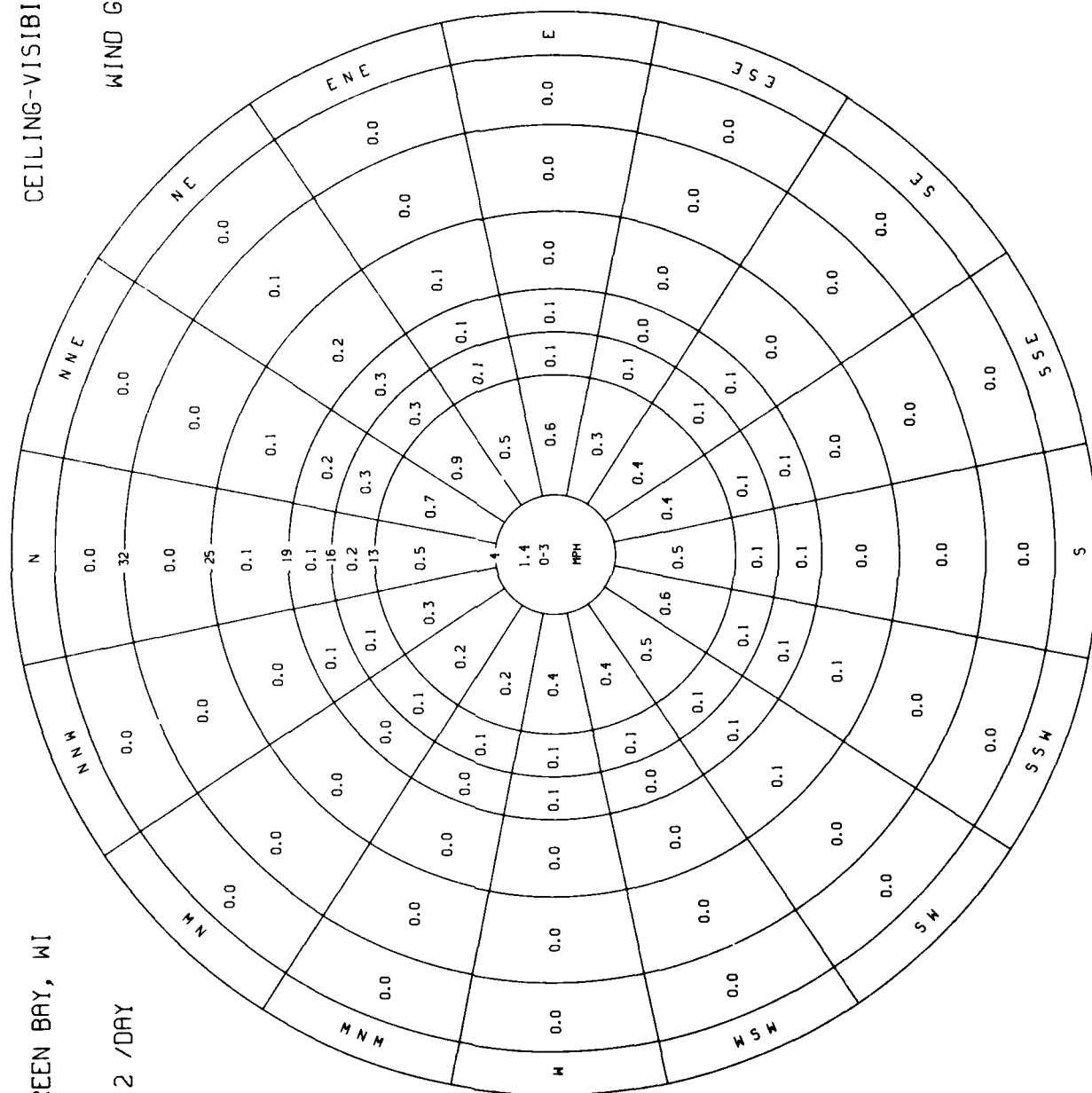
STATION NUMBER: 14898

NO. OBS.: 34052

D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.5	.6	3.6	4.2	.7	.8	.4	.4	.1	.2	.0	.0	.0	.0	5.4	6.3	9.3
NNE	.2	.3	2.6	3.0	.6	.7	.3	.4	.1	.2	.0	.0	.0	.0	3.9	4.6	10.1
NE	.5	.6	2.7	3.1	.5	.6	.3	.4	.1	.2	.0	.0	.0	.0	4.3	5.0	9.3
ENE	.3	.3	1.4	1.6	.2	.2	.1	.1	.1	.1	.0	.0	.0	.0	2.1	2.4	8.5
E	.5	.6	2.1	2.4	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	2.9	3.4	7.3
ESE	.2	.3	.9	1.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.3	1.5	7.0
SE	.4	.5	1.3	1.5	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	1.9	2.2	7.0
SSE	.4	.5	2.2	2.5	.2	.2	.1	.1	.1	.1	.0	.0	.0	.0	2.9	3.4	7.9
S	.9	1.0	4.3	5.0	.5	.6	.3	.3	.1	.1	.0	.0	.0	.0	6.0	7.0	8.1
SSW	.7	.8	5.0	5.8	.9	1.0	.6	.7	.4	.4	.0	.0	.0	.0	7.6	8.8	9.5
SW	1.1	1.2	5.8	6.7	1.0	1.2	.7	.8	.5	.6	.1	.1	.1	.1	9.3	10.8	9.8
WSW	.6	.7	3.6	4.1	.4	.5	.2	.3	.1	.1	.1	.1	.0	.0	5.1	5.9	8.7
W	.7	.8	7.5	8.7	1.5	1.7	.8	1.0	.3	.4	.1	.1	.0	.0	11.0	12.8	9.7
WNW	.4	.5	3.9	4.5	1.1	1.3	.8	1.0	.5	.6	.1	.1	.0	.0	6.8	7.9	11.3
NW	.6	.7	4.1	4.7	.8	1.0	.6	.7	.3	.4	.1	.1	.0	.0	6.5	7.5	9.9
NNW	.3	.4	3.6	4.2	.5	.6	.4	.4	.2	.3	.0	.0	.0	.0	5.1	5.9	9.5
CALM	4.0	4.7													4.0	4.7	
TOTAL	12.5	14.6	54.4	63.3	9.4	11.0	5.9	6.9	3.0	3.5	.5	.6	.1	.1	85.9	100	8.9

GRB GREEN BAY, WI

CLASS 2 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: GRB GREEN BAY, WI

PERIOD: 1950-1978

CLASS 2 / DAY

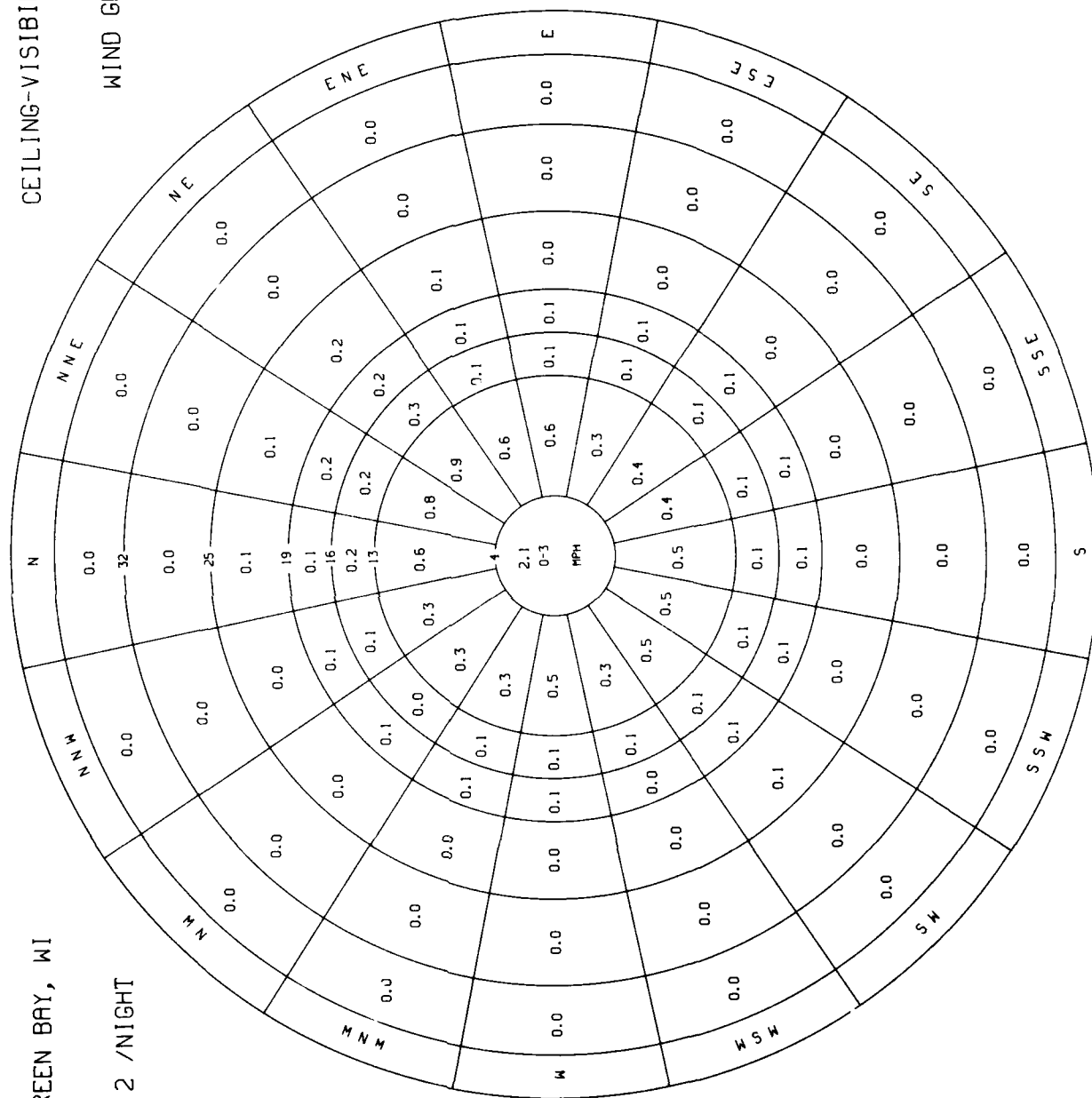
STATION NUMBER: 14898

NO. OBS.: 6296

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.0	.3	.5	3.8	.2	1.1	.1	.8	.1	.7	.0	.0	.0	.0	.9	6.8	11.4
NNE	.0	.3	.7	5.1	.3	2.1	.2	1.5	.1	.8	.0	.3	.0	.0	1.4	10.1	12.4
NE	.1	.7	.9	6.7	.3	2.4	.3	1.8	.2	1.5	.1	.6	.0	.1	1.9	13.8	12.6
ENE	.1	.4	.5	3.4	.1	1.0	.1	.7	.1	.7	.0	.1	.0	.0	.9	6.3	11.4
E	.1	.6	.6	4.1	.1	1.0	.1	.7	.0	.3	.0	.1	.0	.0	.9	6.7	9.9
ESE	.1	.4	.3	2.1	.1	.5	.0	.3	.0	.2	.0	.0	.0	.0	.5	3.5	10.0
SE	.1	.4	.4	3.1	.1	.7	.1	.5	.0	.3	.0	.0	.0	.0	.7	5.0	10.2
SSE	.0	.2	.4	3.0	.1	.9	.1	.5	.0	.3	.0	.1	.0	.0	.7	4.9	11.3
S	.1	.5	.5	3.6	.1	.9	.1	.5	.0	.3	.0	.1	.0	.0	.8	5.8	10.1
SSW	.1	.5	.6	3.9	.1	1.1	.1	.9	.1	.5	.0	.0	.0	.0	1.0	6.9	11.0
SW	.1	.7	.5	3.8	.1	.8	.1	.8	.1	.6	.0	.2	.0	.0	1.0	7.0	11.0
WSW	.0	.3	.4	2.6	.1	.7	.0	.3	.0	.3	.0	.1	.0	.0	.6	4.2	10.4
W	.1	.4	.4	2.8	.1	.7	.1	.6	.0	.3	.0	.1	.0	.1	.7	5.0	11.2
WNW	.0	.3	.2	1.6	.1	.5	.0	.2	.0	.3	.0	.1	.0	.0	.4	3.0	11.3
NW	.0	.3	.2	1.6	.1	.4	.0	.3	.0	.3	.0	.1	.0	.0	.4	3.0	11.3
NNW	.0	.2	.3	2.4	.1	.7	.1	.4	.0	.3	.0	.1	.0	.0	.6	4.1	11.6
CALM	.5	3.6													.5	3.6	
TOTAL	1.4	10.1	7.5	53.6	2.2	15.5	1.5	10.9	1.1	7.6	.3	1.9	.0	.3	14.0	100	10.9

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: GRB GREEN BAY, WI

PERIOD: 1950-1978

CLASS 2 / NIGHT

STATION NUMBER: 14898

NO. OBS.: 5587

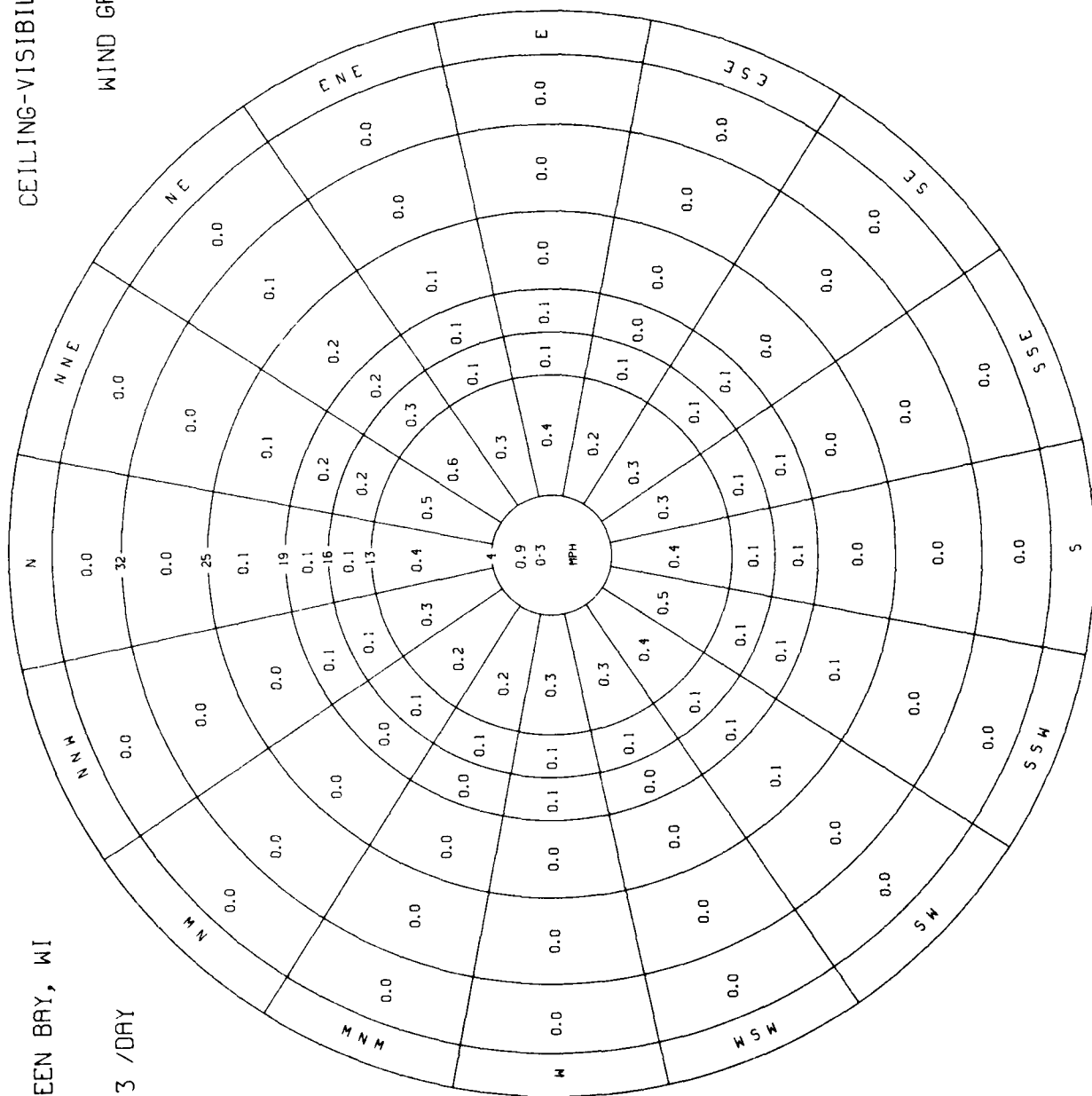
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.1	.8	.6	4.3	.2	1.4	.1	.9	.1	.5	.0	.0	.0	.0	1.1 7.9
NNE	.0	.3	.8	5.4	.2	1.6	.2	1.6	.1	.8	.0	.1	.0	.0	1.4 10.0
NE	.2	1.1	.9	6.3	.3	2.1	.2	1.8	.2	1.3	.0	.3	.0	.1	1.8 13.0
ENE	.1	.5	.6	3.9	.1	.7	.1	.6	.1	.6	.0	.1	.0	.0	.9 6.3
E	.1	.7	.6	4.2	.1	.9	.1	.6	.0	.3	.0	.0	.0	.0	1.0 6.8
ESE	.1	.4	.3	1.9	.1	.5	.1	.4	.0	.1	.0	.0	.0	.0	.4 3.2
SE	.1	.5	.4	2.6	.1	.7	.1	.6	.0	.3	.0	.0	.0	.0	.6 4.6
SSE	.1	.4	.4	2.9	.1	.5	.1	.4	.0	.2	.0	.0	.0	.0	.6 4.4
S	.1	.8	.5	3.5	.1	.6	.1	.5	.0	.2	.0	.0	.0	.0	.8 5.5
SSW	.1	.5	.5	3.5	.1	1.0	.1	.7	.0	.3	.0	.1	.0	.0	.8 6.0
SW	.2	1.2	.5	3.5	.1	.8	.1	.6	.1	.5	.0	.1	.0	.1	.9 6.7
WSW	.1	.5	.3	2.2	.1	.5	.0	.3	.0	.3	.0	.1	.0	.0	.5 3.8
W	.1	.7	.5	3.4	.1	.6	.1	.5	.0	.3	.0	.1	.0	.0	.8 5.6
WNW	.1	.4	.3	1.9	.1	.4	.1	.4	.0	.2	.0	.0	.0	.0	.5 3.4
NW	.1	.6	.3	1.9	.0	.3	.1	.4	.0	.3	.0	.1	.0	.0	.5 3.6
NNW	.0	.3	.3	2.4	.1	.6	.1	.5	.0	.3	.0	.1	.0	.0	.6 4.2
CALM	.7	5.0													.7 5.0
TOTAL	2.1	14.8	7.6	53.8	1.9	13.2	1.5	10.6	.9	6.2	.2	1.1	.0	.3	14.1 10.0

CEILING-VISIBILITY

WIND GRAPH

GRB GREEN BAY, WI

CLASS 3 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: GRB GREEN BAY, WI

PERIOD: 1950-1978

CLASS 3 / DAY

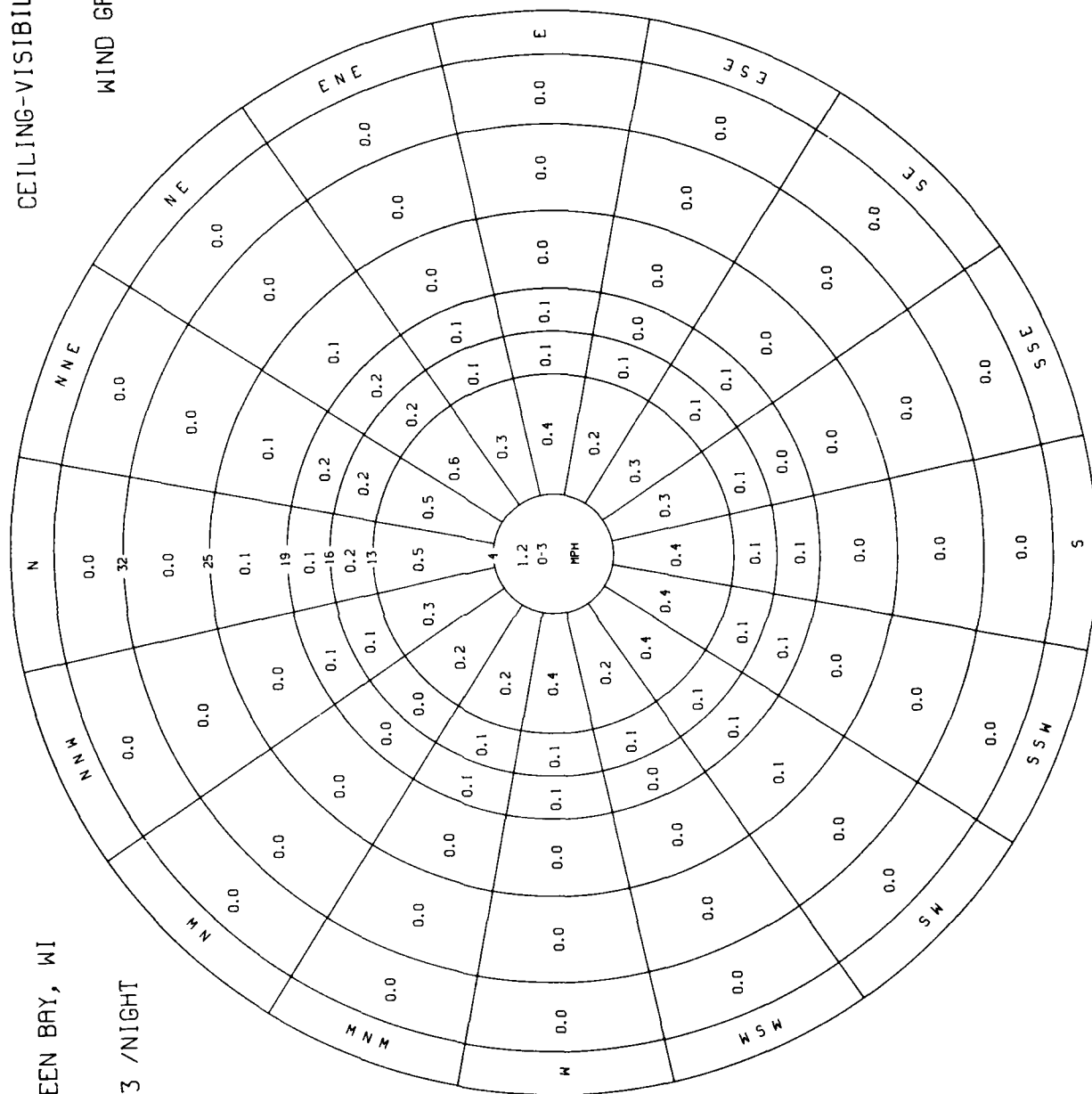
STATION NUMBER: 14898

NO. OBS.: 4890

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.3	.4	3.8	.1	1.3	.1	.9	.1	.6	.0	.0	.0	.0	.8 7.0 11.5
NNE	.0	.3	.5	4.5	.2	2.1	.2	1.7	.1	.8	.0	.0	.0	.0	1.0 9.5 12.7
NE	.1	.6	.6	6.0	.3	2.7	.2	1.8	.2	1.4	.1	.5	.0	.1	1.4 13.0 12.8
ENE	.0	.4	.3	3.0	.1	1.1	.1	.7	.1	.6	.0	.0	.0	.0	.6 5.9 11.6
E	.0	.4	.4	3.7	.1	1.1	.1	.7	.0	.3	.0	.1	.0	.0	.7 6.3 10.7
ESE	.0	.3	.2	2.1	.1	.5	.0	.3	.0	.2	.0	.0	.0	.0	.4 3.5 10.1
SE	.0	.3	.3	3.2	.1	.8	.1	.6	.0	.3	.0	.0	.0	.0	.6 5.2 10.6
SSE	.0	.2	.3	3.1	.1	1.1	.1	.6	.0	.4	.0	.1	.0	.0	.6 5.4 11.6
S	.0	.3	.4	3.8	.1	1.0	.1	.5	.0	.3	.0	.1	.0	.0	.7 6.1 10.6
SSW	.1	.5	.5	4.2	.1	1.3	.1	1.0	.1	.6	.0	.0	.0	.1	.8 7.6 11.2
SW	.1	.5	.4	3.6	.1	1.0	.1	1.0	.1	.8	.0	.2	.0	.0	.8 7.2 12.0
WSW	.0	.3	.3	2.6	.1	.7	.0	.4	.0	.3	.0	.1	.0	.0	.5 4.4 10.9
W	.0	.4	.3	3.0	.1	.9	.1	.7	.0	.3	.0	.1	.0	.1	.6 5.5 11.5
WNW	.0	.3	.2	1.8	.1	.6	.0	.3	.0	.4	.0	.1	.0	.0	.4 3.4 11.9
NW	.0	.3	.2	1.7	.1	.5	.0	.3	.0	.3	.0	.1	.0	.0	.4 3.2 11.2
NNW	.0	.2	.3	2.4	.1	.7	.1	.6	.0	.2	.0	.1	.0	.0	.4 4.1 11.6
CALM	.3	2.6													.3 2.6
TOTAL	.9	8.2	5.7	52.3	1.9	17.4	1.3	12.1	.9	7.9	.2	1.8	.0	.3	10.8 100 11.3

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: GRB GREEN BAY, WI

PERIOD: 1950-1978

CLASS 3 / NIGHT

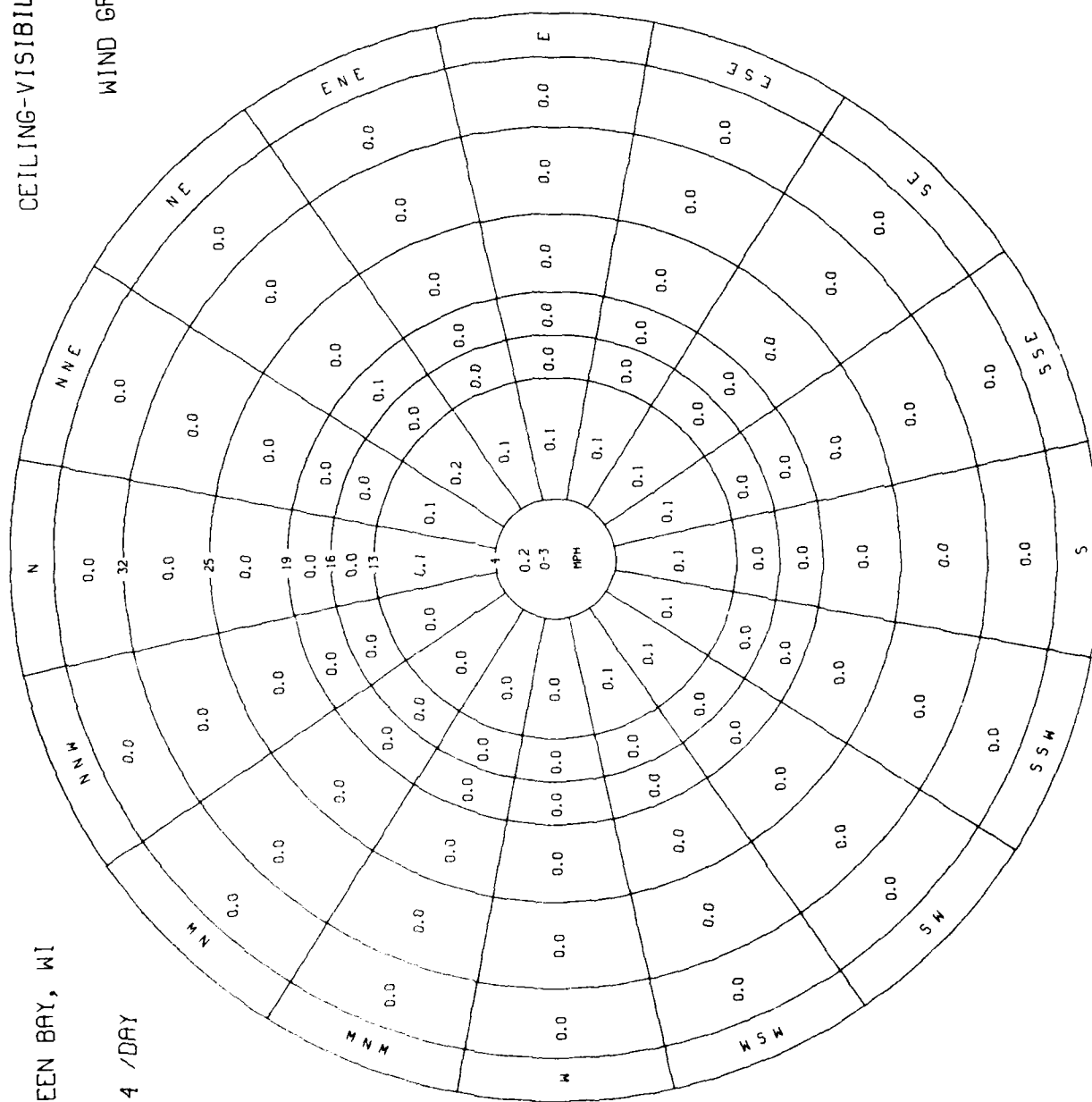
STATION NUMBER: 14898

NO. OBS.: 4126

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.1	.7	.5	4.6	.2	1.6	.1	1.1	.1	.5	.0	.0	.0	.0	.9	8.5	11.3
NNE	.0	.2	.5	5.0	.2	2.0	.2	1.8	.1	.9	.0	.1	.0	.0	1.0	10.1	12.6
NF	.1	.8	.6	5.6	.2	2.3	.2	1.9	.1	1.4	.0	.3	.0	.0	1.3	12.1	12.4
ENE	.0	.4	.3	3.2	.1	.6	.1	.5	.0	.5	.0	.1	.0	.0	.5	5.3	10.7
E	.1	.6	.4	3.9	.1	1.2	.1	.8	.0	.2	.0	.0	.0	.0	.7	6.6	10.3
ESE	.0	.4	.2	1.9	.1	.6	.0	.4	.0	.1	.0	.0	.0	.0	.4	3.4	9.8
SE	.0	.4	.3	2.6	.1	.8	.1	.6	.0	.3	.0	.0	.0	.0	.5	4.7	10.9
SSE	.0	.4	.3	2.7	.1	.6	.1	.4	.0	.2	.0	.0	.0	.0	.5	4.4	10.2
S	.1	.7	.4	3.7	.1	.7	.1	.6	.0	.2	.0	.0	.0	.0	.6	6.0	9.5
SSW	.0	.4	.4	3.5	.1	1.2	.1	.8	.0	.4	.0	.0	.0	.0	.7	6.5	11.1
SW	.1	1.0	.4	3.4	.1	.9	.1	.7	.1	.6	.0	.0	.0	.2	.7	6.8	10.8
WSW	.0	.2	.2	2.4	.1	.6	.0	.3	.0	.3	.0	.1	.0	.0	.4	4.0	10.9
W	.1	.5	.4	4.0	.1	.8	.1	.6	.0	.3	.0	.1	.0	.0	.7	6.4	10.4
NW	.0	.3	.2	1.9	.1	.6	.1	.5	.0	.3	.0	.0	.0	.0	.4	3.7	11.4
NNW	.1	.7	.2	1.8	.0	.4	.0	.4	.0	.3	.0	.0	.0	.0	.4	3.7	10.3
NNW	.0	.3	.3	2.4	.1	.7	.1	.7	.0	.3	.0	.0	.0	.0	.5	4.4	11.3
CALM	.3	3.3													.3	3.3	
TOTAL	1.2	11.4	5.5	52.5	1.6	15.5	1.3	12.3	.7	6.9	.1	1.0	.0	.3	10.4	100	10.7

CEILING-VISIBILITY

WIND GRAPH



GRB GREEN BAY, WI

CLASS 4 / DAY

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: GRB GREEN BAY, WI

PERIOD: 1950-1978

CLASS 4 / DAY

STATION NUMBER: 14898

NO. OBS.: 885

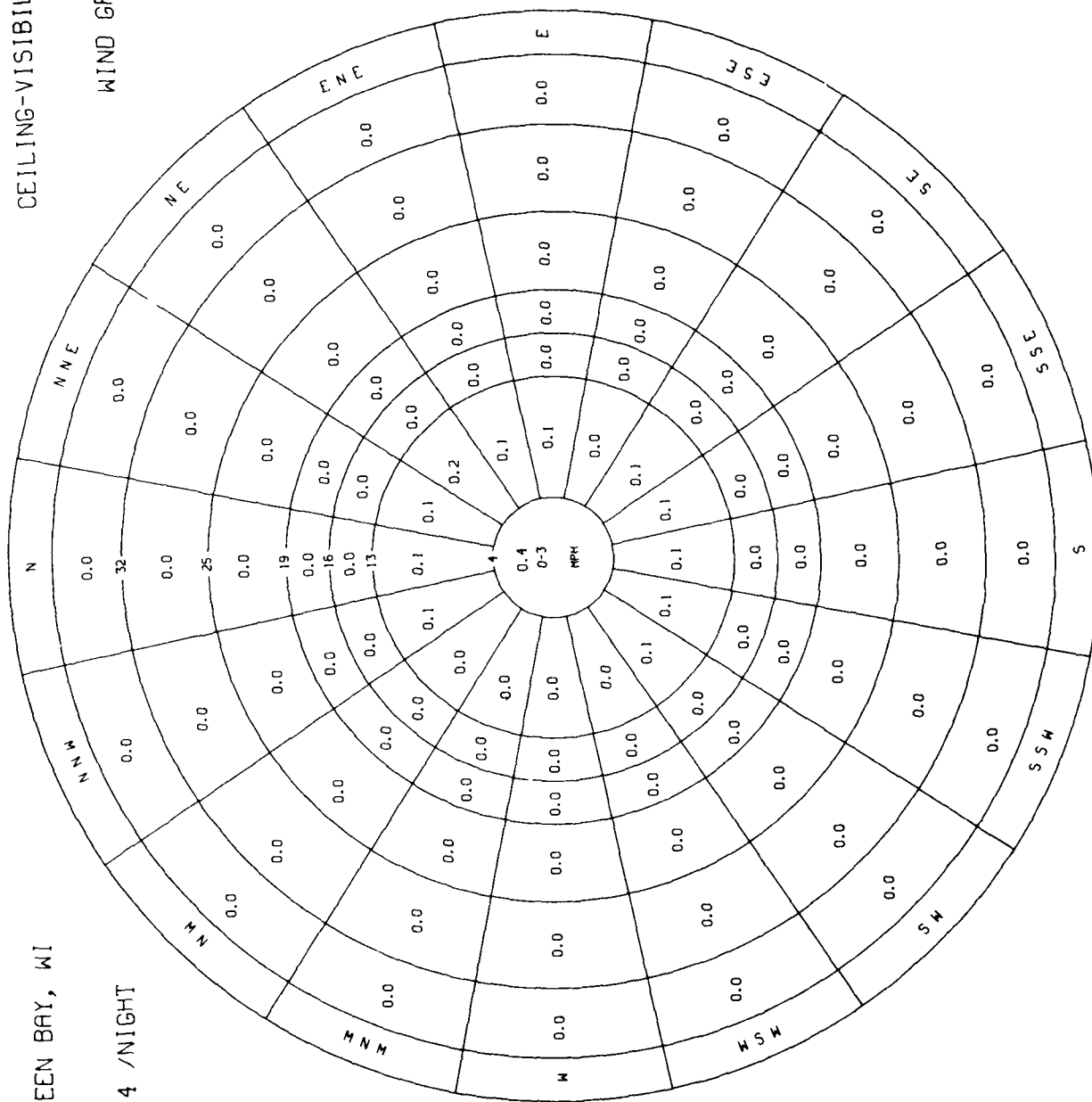
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.3	.1	4.4	.0	.7	.0	.6	.0	.9	.0	.0	.0	.0	.1 6.9
NNE	.0	.1	.1	7.1	.0	2.4	.0	1.5	.0	.8	.0	.5	.0	.0	.2 12.3
NE	.0	.6	.2	9.7	.0	2.3	.1	2.7	.0	1.6	.0	.8	.0	.0	.3 17.6
ENE	.0	.1	.1	4.1	.0	.8	.0	.9	.0	1.4	.0	.1	.0	.0	.1 7.3
E	.0	1.2	.1	5.5	.0	.9	.0	.2	.0	.1	.0	.0	.0	.0	.2 8.0
ESE	.0	.6	.1	2.8	.0	.9	.0	.5	.0	.2	.0	.0	.0	.0	.1 5.0
SE	.0	.2	.1	3.3	.0	.6	.0	.0	.0	.2	.0	.1	.0	.0	.1 4.4
SSE	.0	.0	.1	2.9	.0	.7	.0	.3	.0	.1	.0	.0	.0	.0	.1 4.1
S	.0	.6	.1	3.2	.0	.3	.0	.7	.0	.2	.0	.0	.0	.0	.1 5.0
SSW	.0	.1	.1	3.1	.0	.2	.0	1.0	.0	.1	.0	.0	.0	.0	.1 4.5
SW	.0	.8	.1	3.8	.0	.2	.0	.1	.0	.1	.0	.0	.0	.0	.1 5.1
WSW	.0	.2	.1	2.6	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.1 3.3
W	.0	.3	.0	2.0	.0	.2	.0	.5	.0	.3	.0	.0	.0	.0	.1 3.4
WNW	.0	.1	.0	1.1	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0 1.5
NW	.0	.3	.0	1.6	.0	.1	.0	.2	.0	.2	.0	.2	.0	.1	.1 2.8
NNW	.0	.2	.0	2.1	.0	.6	.0	.1	.0	.7	.0	.5	.0	.0	.1 4.2
CALM	.1	4.6							.1	7.0			.1		.1 4.6
TOTAL	.2	10.5	1.2	59.4	.2	11.4	.2	9.4	.1	7.0	.0	2.1	.0	.1	2.0 100

CEILING-VISIBILITY

WIND GRAPH

GRB GREEN BAY, WI

CLASS 4 / NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1950-1978

STATION NAME: GRB GREEN BAY, WI

CLASS 4 / NIGHT

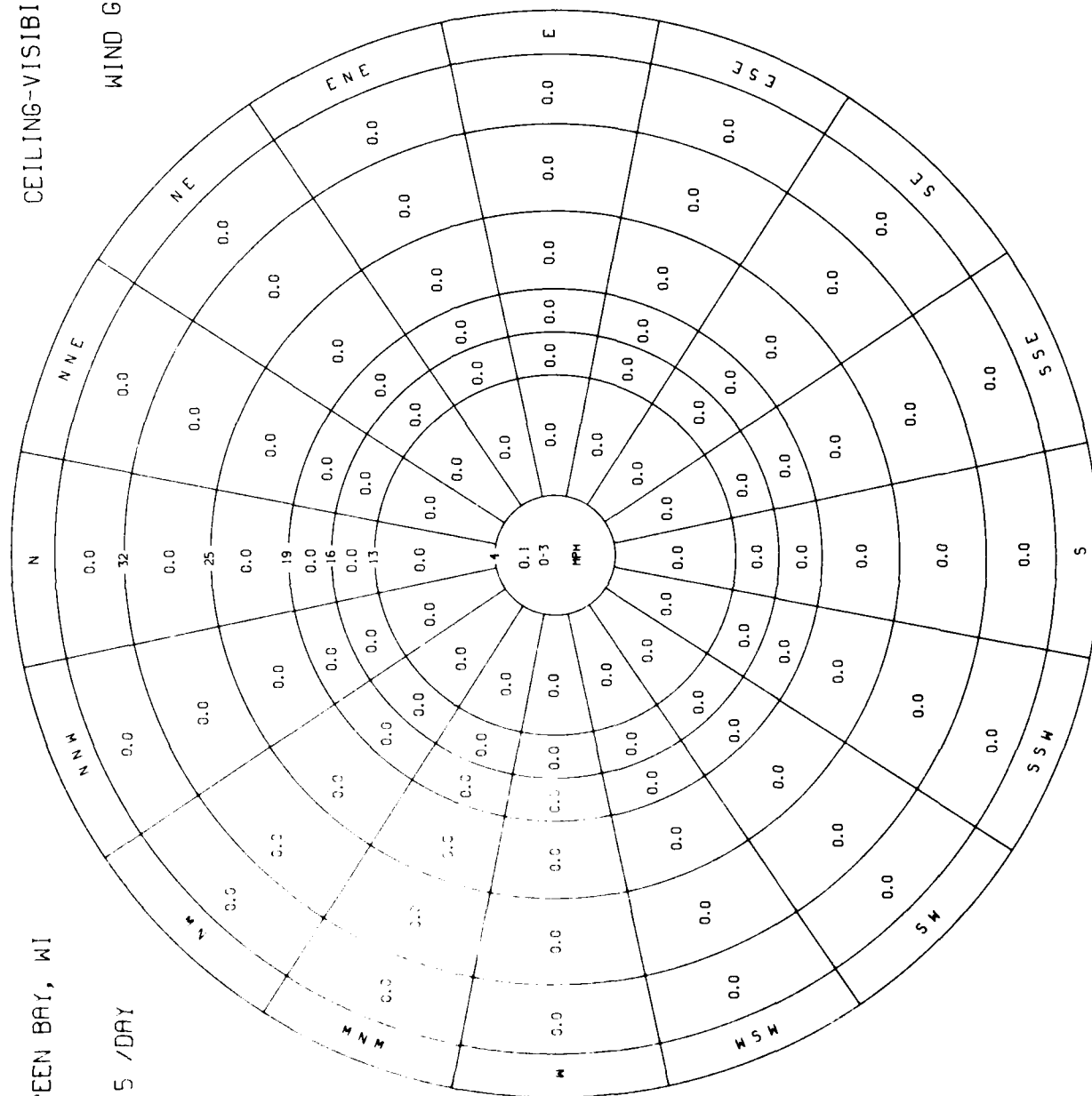
NO. OBS.: 842

STATION NUMBER: 14898

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	1.0	.1	3.8	.0	1.1	.0	.5	.0	.6	.0	.0	.0	.0	.1 6.9 10.1
NNE	.0	.5	.1	6.2	.0	.7	.0	1.9	.0	.6	.0	.1	.0	.0	.2 10.0 11.3
NE	.0	1.4	.2	7.8	.0	1.9	.0	1.9	.0	1.5	.0	.2	.0	.0	.3 14.8 11.1
ENE	.0	.6	.1	6.3	.0	1.3	.0	1.0	.0	1.2	.0	.0	.0	.0	.2 10.3 10.9
E	.0	1.2	.1	5.5	.0	.6	.0	.5	.0	.6	.0	.1	.0	.0	.2 8.4 9.6
ESE	.0	.2	.0	1.9	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.1 2.6 9.0
SE	.0	.7	.1	3.1	.0	.4	.0	1.1	.0	.2	.0	.0	.0	.0	.1 5.5 10.1
SSE	.0	.4	.1	3.3	.0	.2	.0	.1	.0	.1	.0	.0	.0	.0	.1 4.2 8.6
S	.0	.8	.1	2.9	.0	.5	.0	.1	.0	.2	.0	.0	.0	.0	.1 4.5 8.1
SSW	.0	.1	.1	3.4	.0	.6	.0	.4	.0	.1	.0	.0	.0	.0	.1 4.6 9.9
SW	.0	1.3	.1	2.9	.0	.4	.0	.4	.0	.1	.0	.1	.0	.0	.1 5.1 8.4
WSW	.0	.6	.0	1.3	.0	.4	.0	.0	.0	.1	.0	.0	.0	.0	.1 2.4 7.9
W	.0	.8	.0	2.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.1 3.1 6.4
WNW	.0	.4	.0	1.9	.0	.0	.0	.1	.0	.1	.0	.1	.0	.0	.1 2.6 8.5
NW	.0	.5	.0	1.7	.0	.1	.0	.2	.0	.4	.0	.1	.0	.0	.1 3.0 10.1
NNW	.0	.2	.1	2.6	.0	1.0	.0	.2	.0	.0	.0	.2	.0	.0	.1 4.3 10.9
CALM	.2	7.7													.2 7.7
TOTAL	.4	18.4	1.2	56.5	.2	9.1	.2	8.7	.1	6.2	.0	1.1	.0	.0	2.1 100 9.2

GRB GREEN BAY, WI

CLASS 5 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: GRB GREEN BAY, WI

PERIOD: 1950-1978

CLASS 5 / DAY

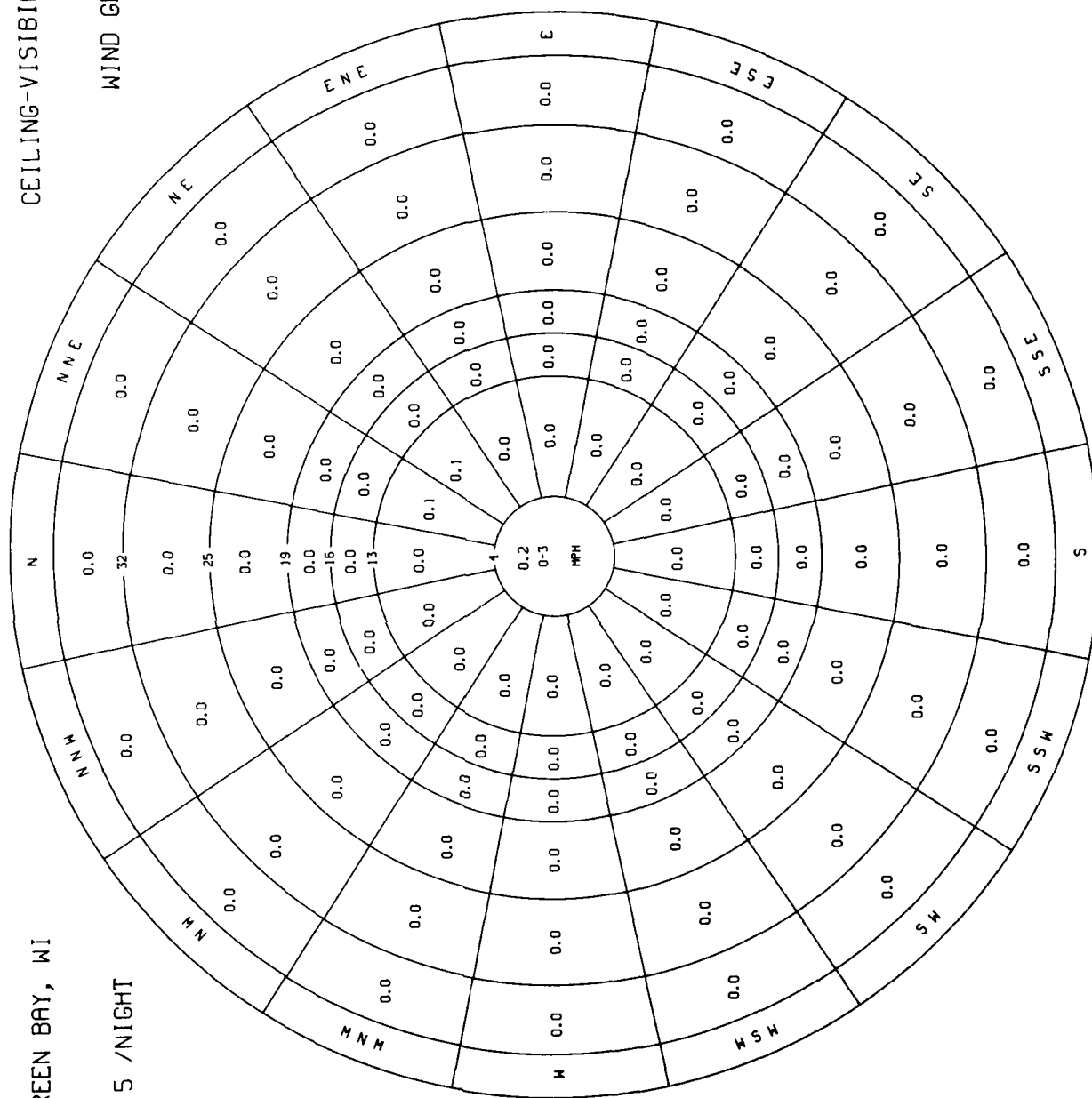
STATION NUMBER: 14898

NO. OBS.: 253

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.0	.4	.0	3.2	.0	.0	.0	.4	.0	2.0	.0	.4	.0	.0	.0	6.3	12.9
NNE	.0	.8	.0	7.5	.0	3.2	.0	.8	.0	1.6	.0	.4	.0	.4	.1	14.6	12.5
NE	.0	1.2	.0	8.7	.0	1.6	.0	1.6	.0	3.2	.0	1.6	.0	.4	.1	18.2	13.5
ENE	.0	.0	.0	4.0	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	4.7	9.6
E	.0	2.0	.0	5.1	.0	.0	.0	.8	.0	.4	.0	.4	.0	.0	.0	8.7	8.5
ESE	.0	.8	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	7.6
SE	.0	2.4	.0	2.8	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	5.5	6.7
SSE	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	8.3
S	.0	1.6	.0	2.0	.0	.0	.0	.4	.0	.8	.0	.0	.0	.0	.0	4.7	8.9
SSW	.0	.4	.0	2.8	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.6	7.9
SW	.0	1.6	.0	3.2	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	5.5	7.3
WSW	.0	.0	.0	3.6	.0	.4	.0	.0	.0	.4	.0	.0	.0	.4	.0	4.7	12.2
W	.0	.8	.0	2.4	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4	.0	4.0	11.4
WNW	.0	.8	.0	.8	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4	8.2
NW	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	1.2	14.3
NNW	.0	.0	.0	4.7	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	5.5	9.8
CALM	.0	7.1													.0	7.1	
TOTAL	.1	19.8	.3	53.8	.0	6.7	.0	4.7	.1	10.3	.0	3.2	.0	1.6	.6	100	9.9

GRB GREEN BAY, WI

CLASS 5 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: GRB GREEN BAY, WI

PERIOD: 1950-1978

CLASS 6 / DAY

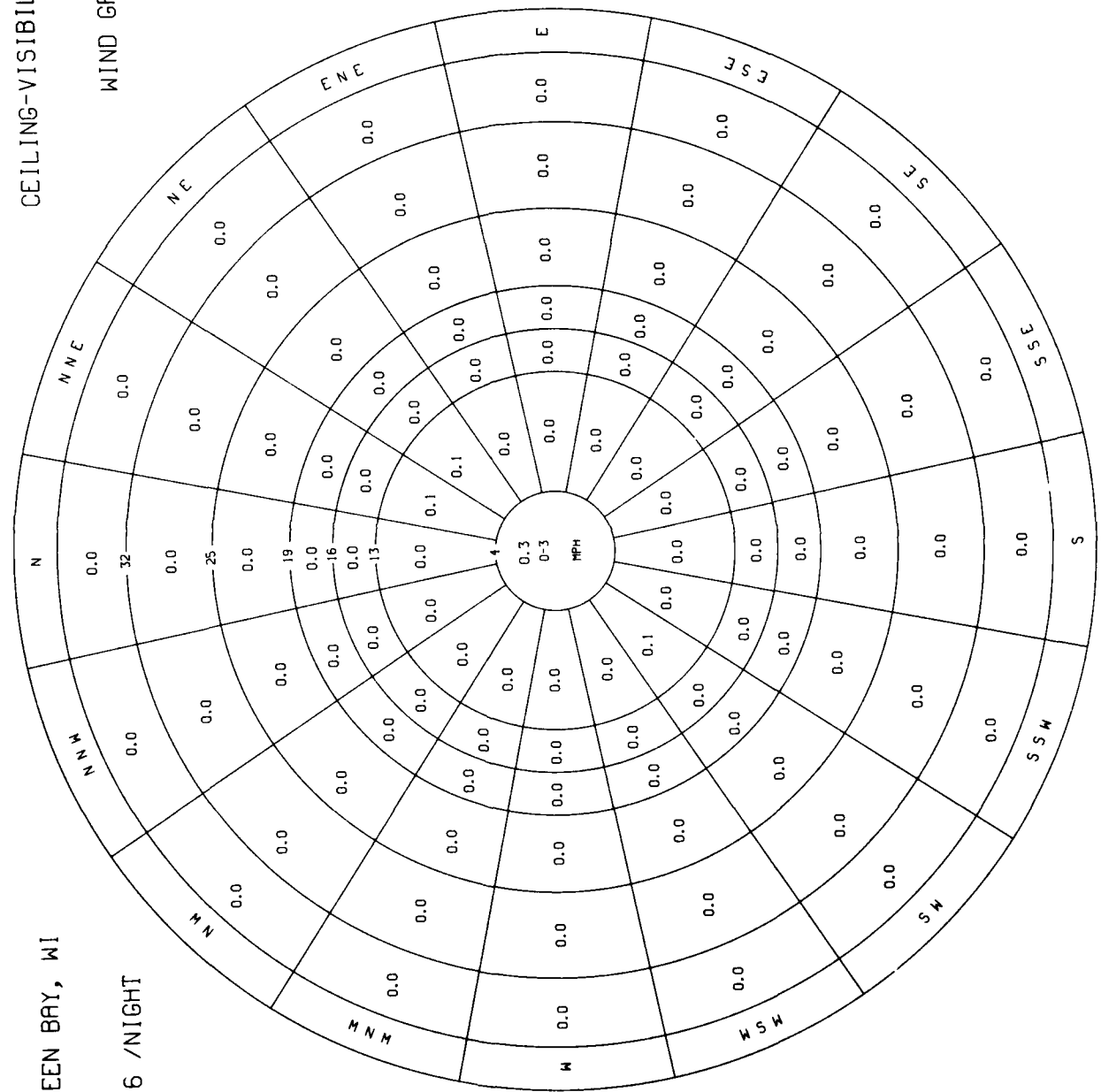
STATION NUMBER: 14898

NO. OBS.: 268

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.4	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.0
NNE	.0	.4	.0	7.8	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.1 9.0
NE	.0	2.6	.0	7.5	.0	.0	.0	.4	.0	.7	.0	.0	.0	.7	.1 11.9
ENE	.0	2.6	.0	7.5	.0	.7	.0	.4	.0	.4	.0	.4	.0	.0	.1 11.9
E	.0	1.1	.0	5.6	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0 7.1
ESE	.0	.4	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.5
SE	.0	1.1	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.4
SSE	.0	.4	.0	1.9	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0 2.6
S	.0	1.5	.0	3.7	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0 5.6
SSW	.0	.7	.0	4.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 4.9
SW	.0	3.0	.0	8.2	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.1 11.6
WSW	.0	1.5	.0	1.5	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.4
W	.0	1.5	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.7
WNW	.0	1.1	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.9
NW	.0	.4	.0	.7	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0 1.5
NNW	.0	.7	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.5
CALM	.1	15.7													.1 15.7
TOTAL	.2	35.1	.3	58.2	.0	1.1	.0	1.5	.0	2.2	.0	1.1	.0	.7	.6 100

GRB GREEN BAY, WI

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: GRB GREEN BAY, WI

PERIOD: 1950-1978

CLASS 6 / NIGHT

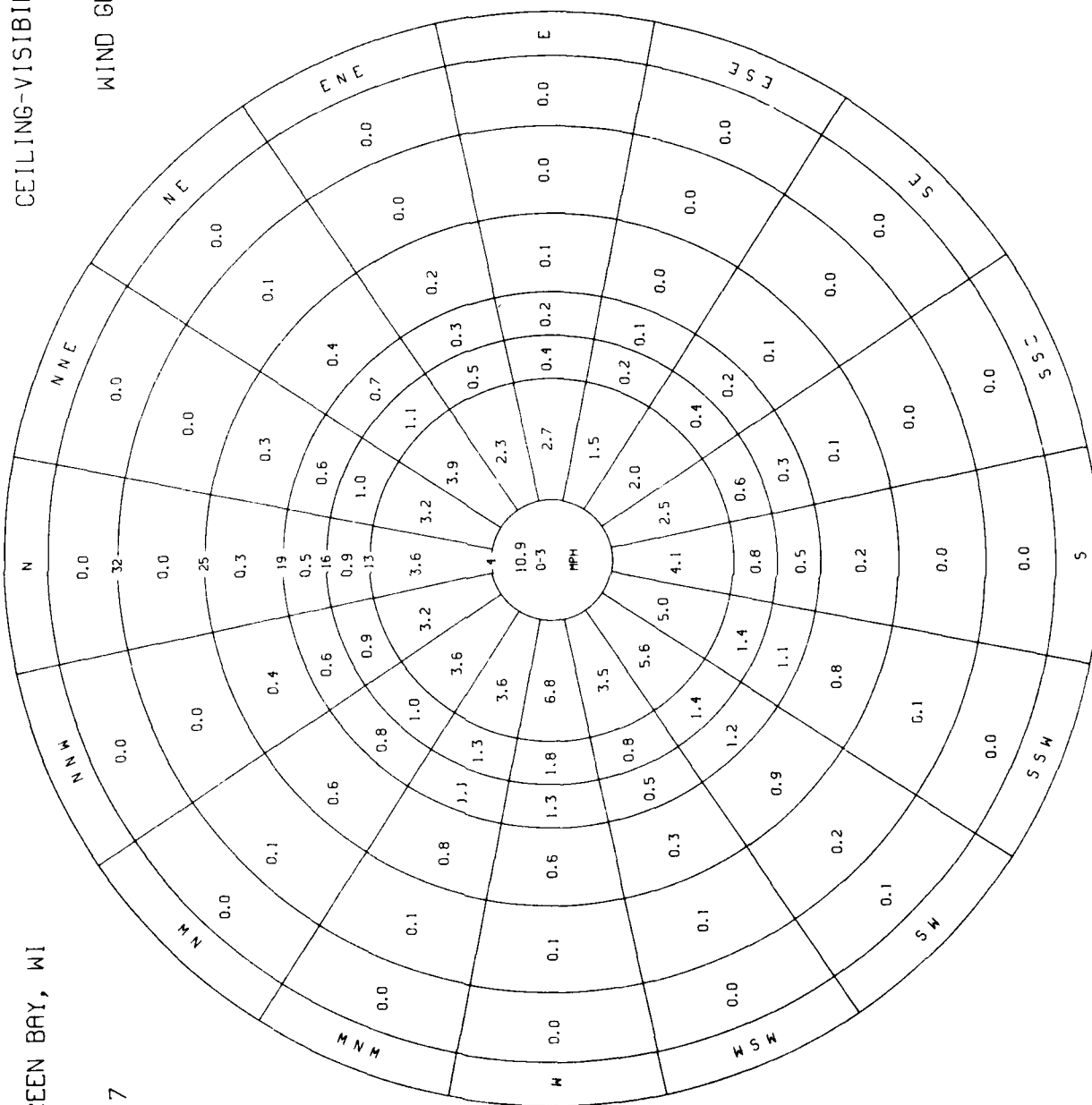
STATION NUMBER: 14898

NO. OBS.: 341

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	1.8	.0	3.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.6
NNE	.0	1.2	.1	6.7	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	8.2
NNE	.0	3.2	.1	9.7	.0	.6	.0	.3	.0	.0	.0	.9	.0	.0	14.7
ENE	.0	1.5	.0	4.7	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	6.7
E	.0	.3	.0	4.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.7
ESE	.0	.9	.0	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.9
SE	.0	.3	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5
SSE	.0	.0	.0	2.9	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	3.2
S	.0	1.5	.0	3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.7
SSW	.0	2.3	.0	3.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.9
SW	.0	3.2	.1	6.7	.0	.6	.0	.0	.0	.3	.0	.0	.0	.0	10.9
WSW	.0	2.3	.0	3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.6
W	.0	1.8	.0	1.8	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	3.8
WNW	.0	1.2	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1
NW	.0	.3	.0	2.1	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	2.9
NNW	.0	.6	.0	1.5	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	2.6
CALM	.1	14.1													14.1
TOTAL	.3	36.4	.5	58.4	.0	2.3	.0	.3	.0	1.5	.0	1.2	.0	.0	9
															100
															5.7

CEILING-VISIBILITY

WIND GRAPH

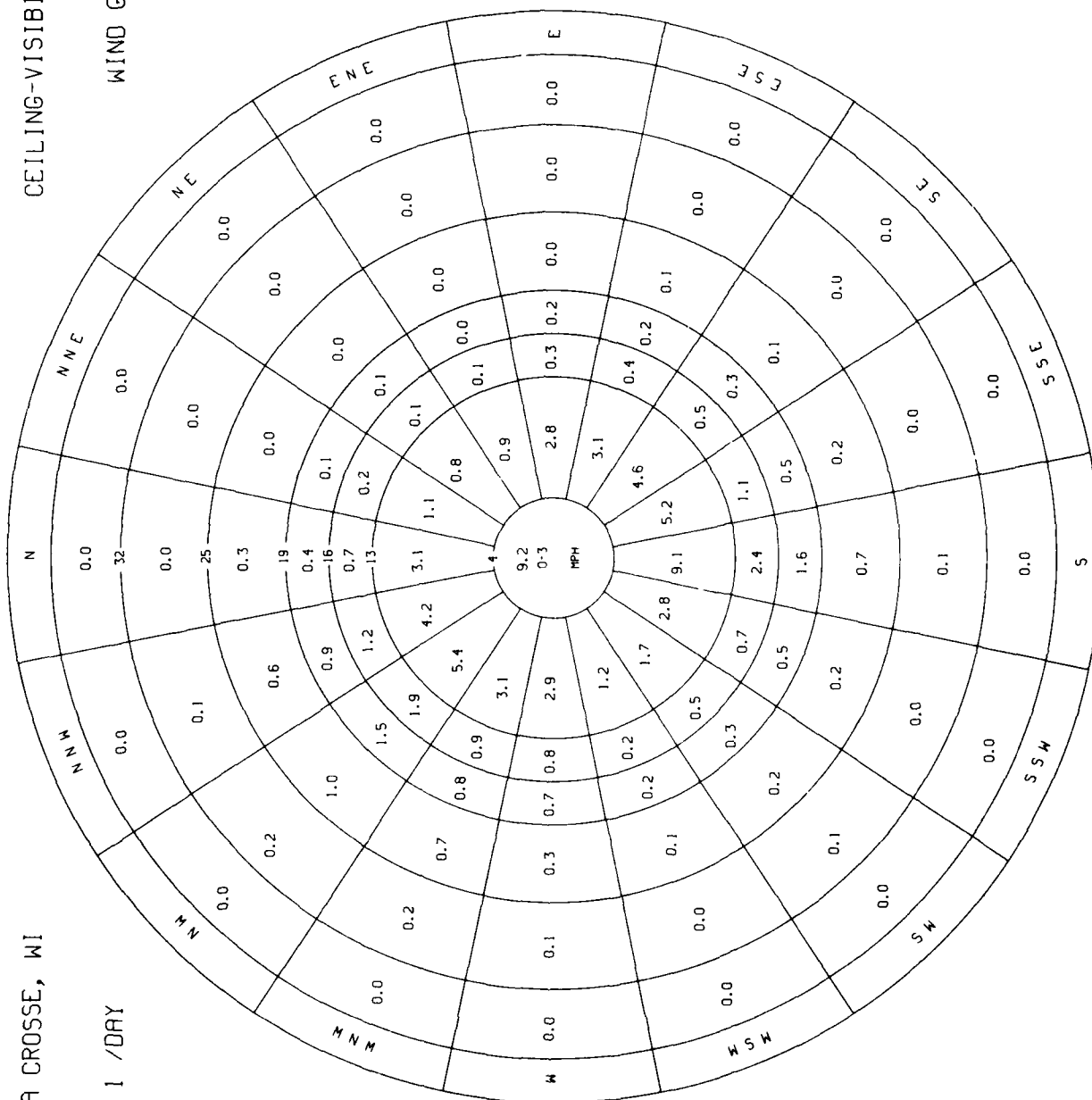


GRB GREEN BAY, WI

CLASS 7

WIND GRAPH

CLASS 1 / DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1951-1978

CLASS 1 / DAY

NO. OBS.: 38503

STATION NAME: LSE LA CROSSE, WI

STATION NUMBER: 14920

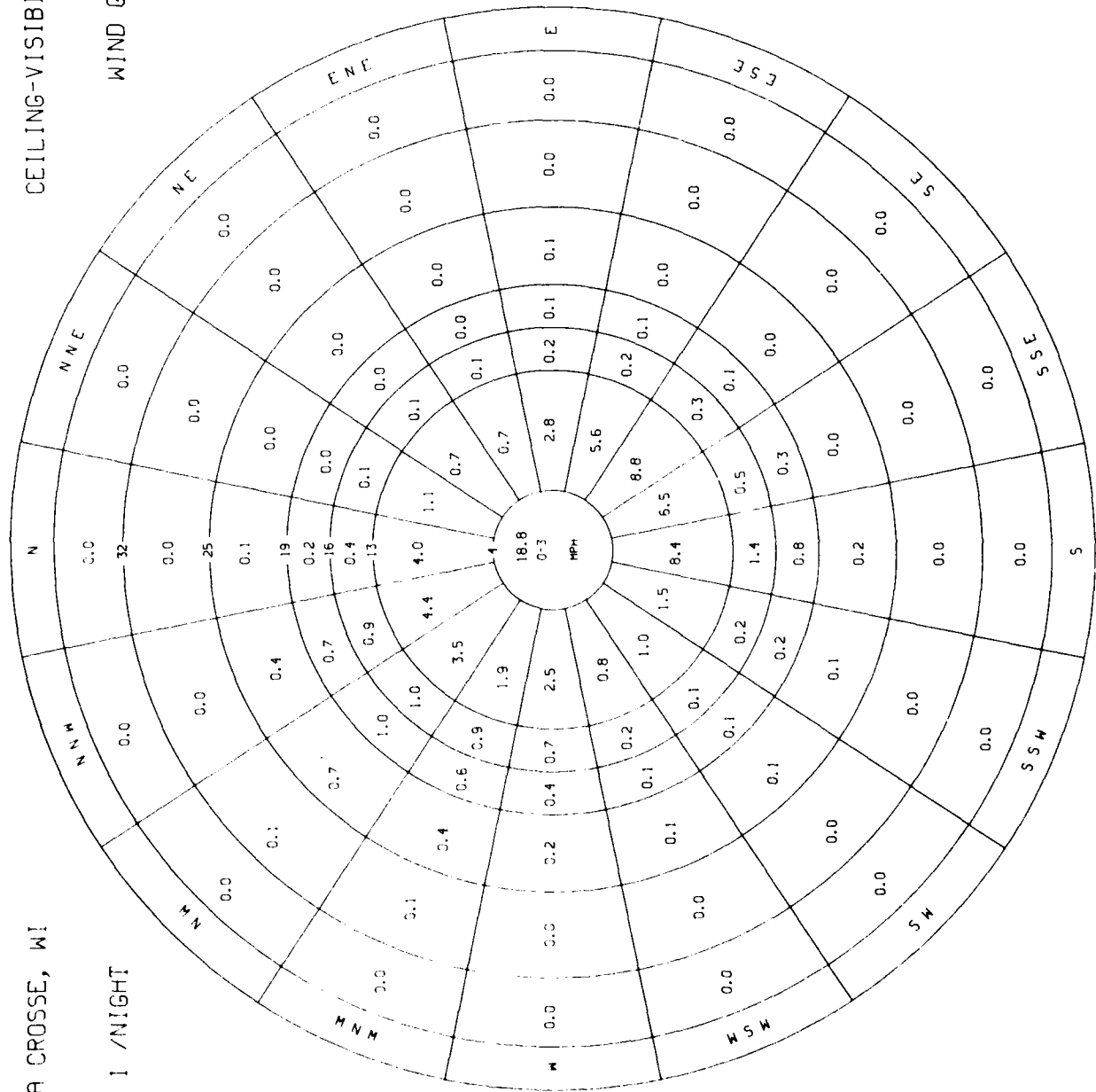
D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.2	.2	3.1	3.6	.7	.8	.4	.5	.3	.3	.0	.0	.0	.0	4.7	5.4	10.5
NNE	.1	.1	1.1	1.3	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	1.5	1.7	9.3
NENE	.1	.1	.8	.9	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	1.1	1.3	8.6
ENE	.1	.1	.9	1.0	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	1.2	1.3	8.8
E	.2	.2	2.8	3.2	.3	.3	.2	.2	.0	.1	.0	.0	.0	.0	3.5	4.1	8.7
ESE	.2	.2	3.1	3.6	.4	.4	.2	.2	.1	.1	.0	.0	.0	.0	3.9	4.5	8.7
SE	.3	.3	4.6	5.3	.5	.6	.3	.3	.1	.1	.0	.0	.0	.0	5.8	6.6	8.8
SSE	.2	.2	5.2	6.0	1.1	1.2	.5	.6	.2	.2	.0	.0	.0	.0	7.2	8.3	10.0
S	.3	.4	9.1	10.4	2.4	2.8	1.6	1.9	.7	.8	.1	.1	.0	.0	14.2	16.3	11.1
SSW	.1	.1	2.8	3.2	.7	.8	.5	.6	.2	.3	.0	.1	.0	.0	4.4	5.1	11.1
SW	.1	.1	1.7	2.0	.5	.5	.3	.3	.2	.2	.1	.1	.0	.0	2.8	3.2	11.3
WSW	.1	.1	1.2	1.4	.2	.3	.2	.2	.1	.1	.0	.0	.0	.0	1.9	2.2	10.8
W	.1	.1	2.9	3.3	.8	.9	.7	.8	.3	.4	.1	.1	.0	.0	5.0	5.7	11.7
WNW	.1	.1	3.1	3.5	.9	1.1	.8	.9	.7	.8	.2	.2	.0	.0	5.8	6.7	12.6
NW	.2	.2	5.4	6.2	1.9	2.2	1.5	1.7	1.0	1.1	.2	.2	.0	.0	10.1	11.7	12.4
NNW	.2	.2	4.2	4.8	1.2	1.4	.9	1.0	.6	.7	.1	.1	.0	.0	7.2	8.2	11.7
CALM	6.7	7.7													6.7	7.7	
TOTAL	9.2	10.6	52.1	59.9	12.0	13.8	8.2	9.4	4.5	5.2	.8	.9	.1	.1	86.9	100	10.0

CEILING-VISIBILITY

WIND GRAPH

LSE LA CROSSE, WI

CLASS 1 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: LSE LA CROSSE, WI

PERIOD: 1951-1978

CLASS 1 / NIGHT

STATION NUMBER: 14920

NO. OBS.: 32879

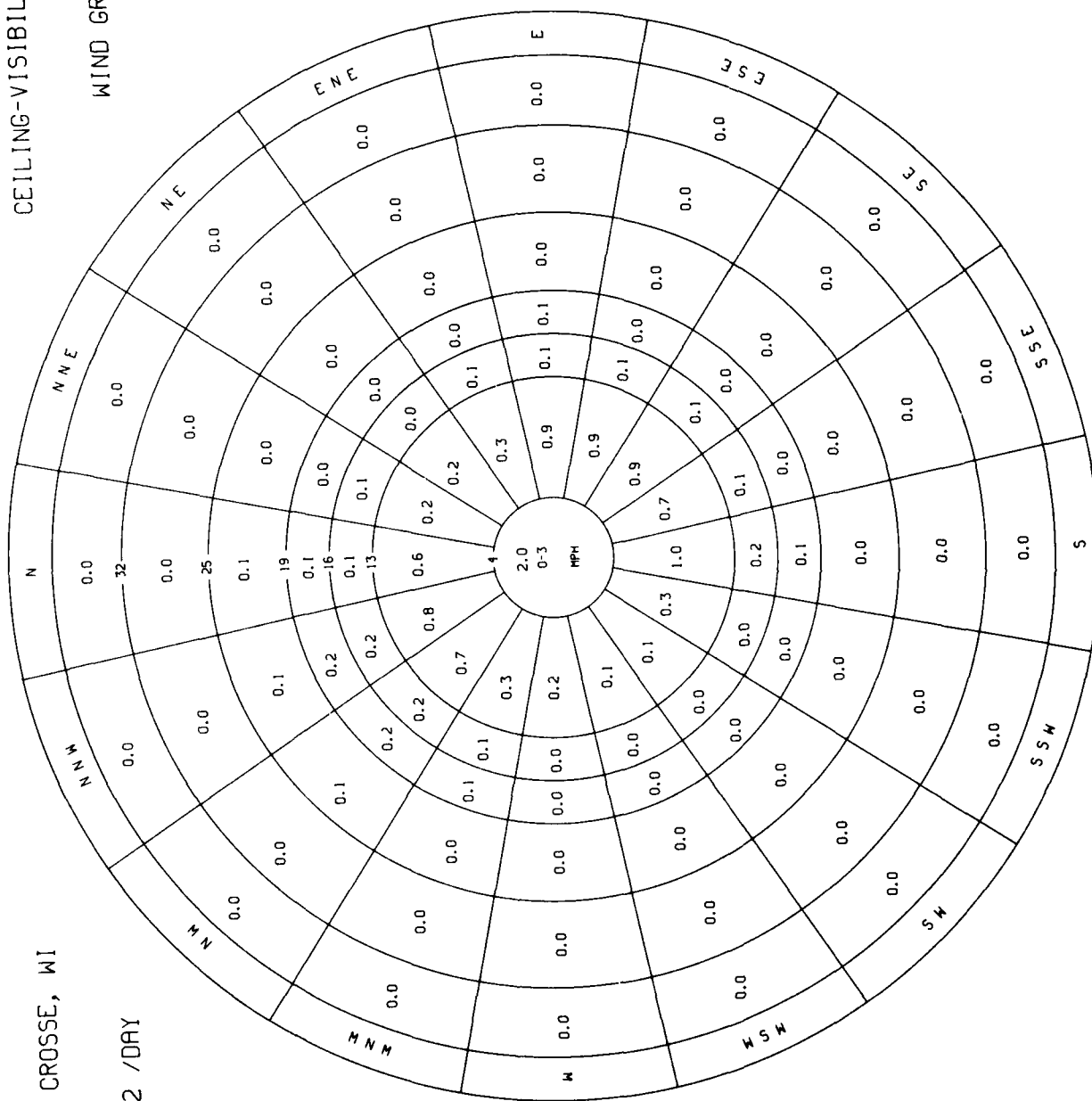
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.3	.4	4.0	4.6	.4	.5	.2	.2	.1	.1	.0	.0	.0	.0	5.1 5.8
NNE	.1	.1	1.1	1.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.3 1.5
NE	.1	.2	.7	.8	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	1.0 1.1
ENE	.1	.1	.7	.8	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.8 1.0
E	.4	.4	2.8	3.2	.2	.2	.1	.1	.1	.1	.0	.0	.0	.0	3.5 4.0
ESE	.4	.5	5.6	6.3	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	6.3 7.1
SE	.7	.8	8.8	10.1	.3	.4	.1	.1	.0	.0	.0	.0	.0	.0	10.1 11.5
SSE	.3	.3	6.5	7.5	.5	.6	.3	.3	.0	.1	.0	.0	.0	.0	7.6 8.7
S	.3	.4	8.4	9.5	1.4	1.6	.8	.9	.2	.3	.0	.0	.0	.0	11.2 12.7
SSW	.1	.1	1.5	1.7	.2	.3	.2	.2	.1	.1	.0	.0	.0	.0	2.1 2.4
SW	.1	.1	1.0	1.1	.1	.1	.1	.1	.1	.1	.0	.0	.0	.0	1.4 1.6
WSW	.1	.1	.8	.9	.2	.2	.1	.1	.1	.1	.0	.0	.0	.0	1.2 1.3
W	.1	.1	2.5	2.8	.7	.8	.4	.4	.2	.3	.0	.0	.0	.0	3.9 4.4
WNW	.1	.1	1.9	2.2	.9	1.0	.6	.7	.4	.5	.1	.1	.0	.0	4.0 4.6
NW	.2	.2	3.5	4.0	1.0	1.2	1.0	1.1	.7	.8	.1	.1	.0	.0	6.6 7.5
NNW	.2	.2	4.4	5.0	.9	1.0	.7	.8	.4	.5	.0	.1	.0	.0	6.5 7.5
CALM	15.2	17.3													15.2 17.3
TOTAL	18.8	21.4	54.1	61.7	7.1	8.1	4.7	5.4	2.6	3.0	.3	.4	.1	.1	87.7 100

CEILING-VISIBILITY

WIND GRAPH

LSE LA CROSSE, WI

CLASS 2 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1951-1978

STATION NAME: LSE LA CROSSE, WI

CLASS 2 / DAY

NO. OBS.: 5816

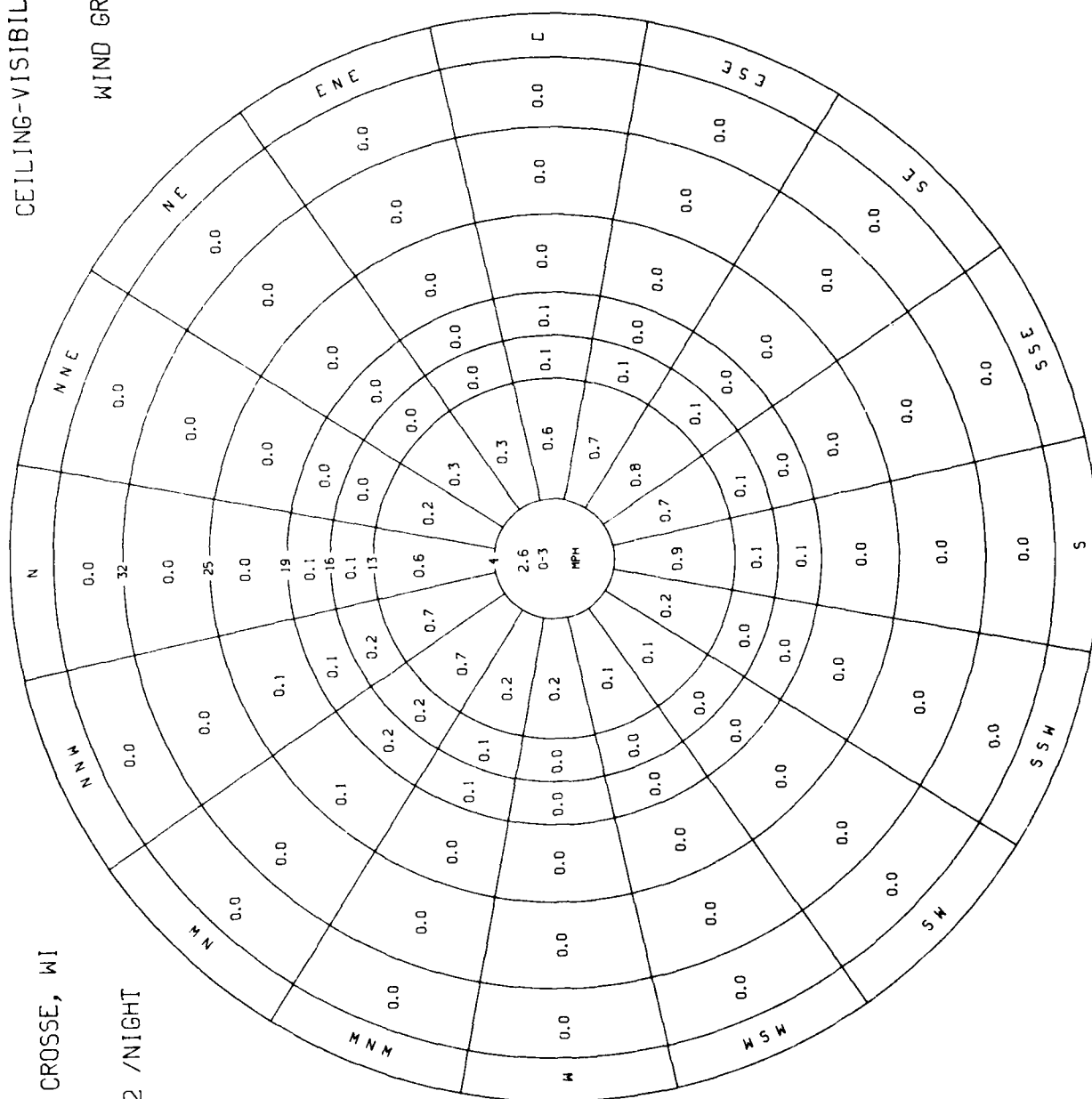
STATION NUMBER: 14920

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED			
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C	D
N	.0	.2	.6	4.2	.1	.9	.1	.7	.1	.6	.0	.0	.0	.0	.0	.9	6.6	11.1
NNE	.0	.0	.2	1.9	.1	.4	.0	.2	.0	.1	.0	.0	.0	.0	.0	.4	2.8	10.7
NE	.0	.2	.2	1.8	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.3	2.4	8.7
ENE	.0	.1	.3	2.5	.1	.4	.0	.2	.0	.1	.0	.0	.0	.0	.0	.4	3.3	9.4
E	.1	.5	.9	6.6	.1	.9	.1	.5	.0	.1	.0	.1	.0	.0	.0	1.1	8.7	9.2
ESE	.1	.5	.9	6.6	.1	.7	.0	.4	.0	.1	.0	.0	.0	.0	.0	1.1	8.2	8.5
SE	.1	.5	.9	6.9	.1	.7	.0	.2	.0	.0	.0	.0	.0	.0	.0	1.1	8.3	8.0
SSE	.0	.3	.7	5.5	.1	.7	.0	.2	.0	.1	.0	.0	.0	.0	.0	.9	6.8	8.9
S	.0	.4	1.0	7.5	.2	1.2	.1	.5	.0	.2	.0	.1	.0	.0	.0	1.3	9.9	9.3
SSW	.0	.2	.3	2.0	.0	.3	.0	.1	.0	.1	.0	.1	.0	.0	.0	.4	2.8	9.3
SW	.0	.2	.1	1.1	.0	.2	.0	.2	.0	.1	.0	.0	.0	.0	.0	.2	1.8	10.1
WSW	.0	.1	.1	.7	.0	.2	.0	.2	.0	.1	.0	.0	.0	.0	.0	.2	1.3	10.6
W	.0	.1	.2	1.4	.0	.3	.0	.3	.0	.2	.0	.1	.0	.0	.0	.3	2.6	12.2
WNW	.0	.1	.3	2.0	.1	.5	.1	.5	.0	.3	.0	.1	.0	.0	.0	.5	3.5	12.2
NW	.1	.4	.7	5.2	.2	1.5	.2	1.3	.1	.8	.0	.4	.0	.0	.0	1.2	9.5	12.1
NNW	.0	.3	.8	6.1	.2	1.2	.2	1.3	.1	1.0	.0	.2	.0	.0	.0	1.3	10.1	11.8
CALM	1.5	11.4														1.5	11.4	
TOTAL	2.0	15.5	8.2	62.1	1.4	10.3	.9	6.9	.5	4.1	.1	1.1	.0	.1	13.1	100		8.9

LSL LA CROSSE, WI

WIND GRAPH

CLASS 2 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1951-1978

STATION NAME: LSE LA CROSSE, WI

CLASS 2 / NIGHT

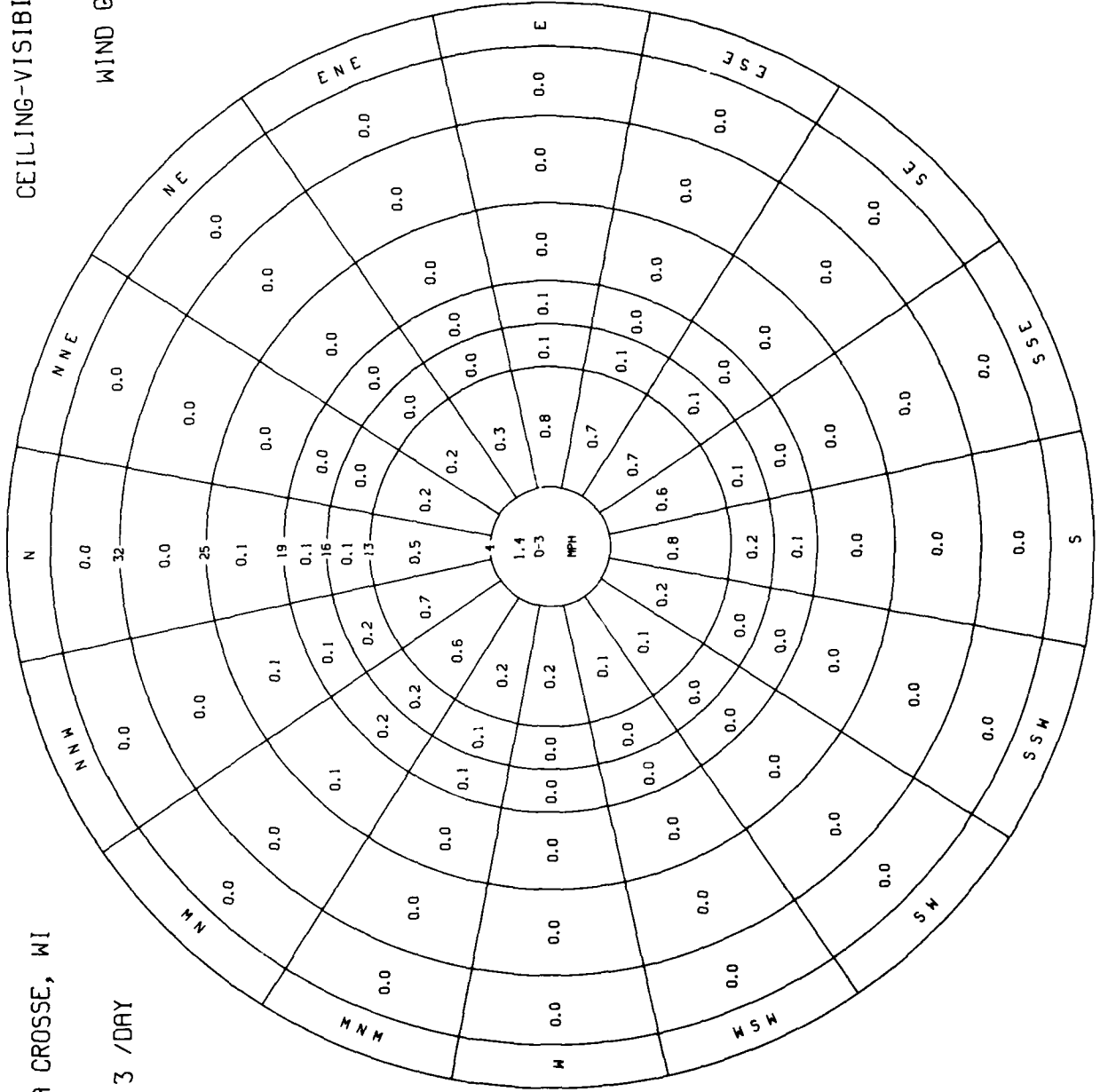
NO. OBS.: 4607

STATION NUMBER: 14920

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.4	.6	4.6	.1	.8	.1	.6	.0	.3	.0	.1	.0	.0	.8 6.7 10.2
NNE	.0	.1	.2	1.9	.0	.3	.0	.1	.0	.0	.0	.0	.0	.0	.3 2.4 9.2
NE	.0	.2	.3	2.1	.0	.1	.0	.2	.0	.0	.0	.0	.0	.0	.3 2.6 8.3
ENE	.0	.1	.3	2.3	.0	.3	.0	.2	.0	.0	.0	.0	.0	.0	.4 2.9 8.9
E	.0	.2	.6	5.3	.1	.6	.1	.4	.0	.1	.0	.0	.0	.0	.8 6.6 8.9
ESE	.1	.4	.7	5.9	.1	.7	.0	.2	.0	.1	.0	.0	.0	.0	.9 7.3 8.1
SE	.1	.5	.8	6.5	.1	.5	.0	.3	.0	.0	.0	.0	.0	.0	1.0 7.8 7.9
SSE	.1	.4	.7	5.9	.1	.6	.0	.3	.0	.0	.0	.0	.0	.0	.9 7.2 8.4
S	.1	.5	.9	7.2	.1	.7	.1	.5	.0	.1	.0	.0	.0	.0	1.1 8.9 8.6
SSW	.0	.2	.2	2.0	.0	.3	.0	.1	.0	.1	.0	.0	.0	.0	.3 2.7 8.7
SW	.0	.1	.1	1.1	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.2 1.4 8.6
WSW	.0	.1	.1	.6	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1 1.0 11.2
W	.0	.1	.2	1.6	.0	.3	.0	.3	.0	.2	.0	.0	.0	.0	.3 2.6 11.2
WNW	.0	.2	.2	1.9	.1	.8	.1	.7	.0	.3	.0	.1	.0	.0	.5 4.0 12.4
NW	.1	.5	.7	5.3	.2	1.4	.2	1.3	.1	.9	.0	.2	.0	.0	1.2 9.6 11.8
NNW	.0	.4	.7	5.5	.2	1.6	.1	1.0	.1	.8	.0	.2	.0	.0	1.2 9.5 11.3
CALM	2.1	17.1													2.1 17.1
TOTAL	2.6	21.2	7.3	59.6	1.1	9.1	.8	6.3	.4	3.2	.1	.6	.0	.0	12.3 100 8.0

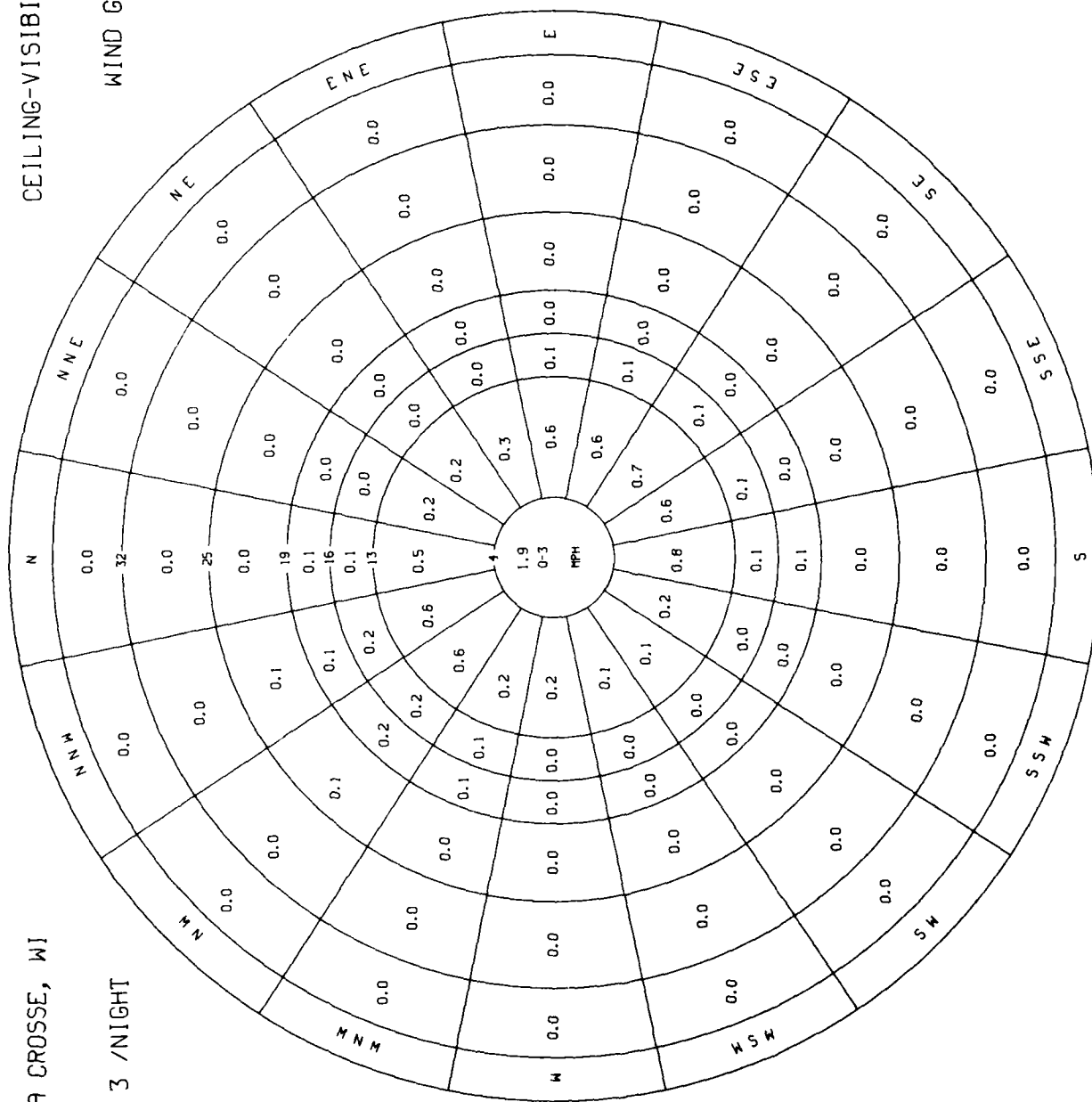
CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1951-1978

STATION NAME: LSE LA CROSSE, WI

CLASS 3 / NIGHT

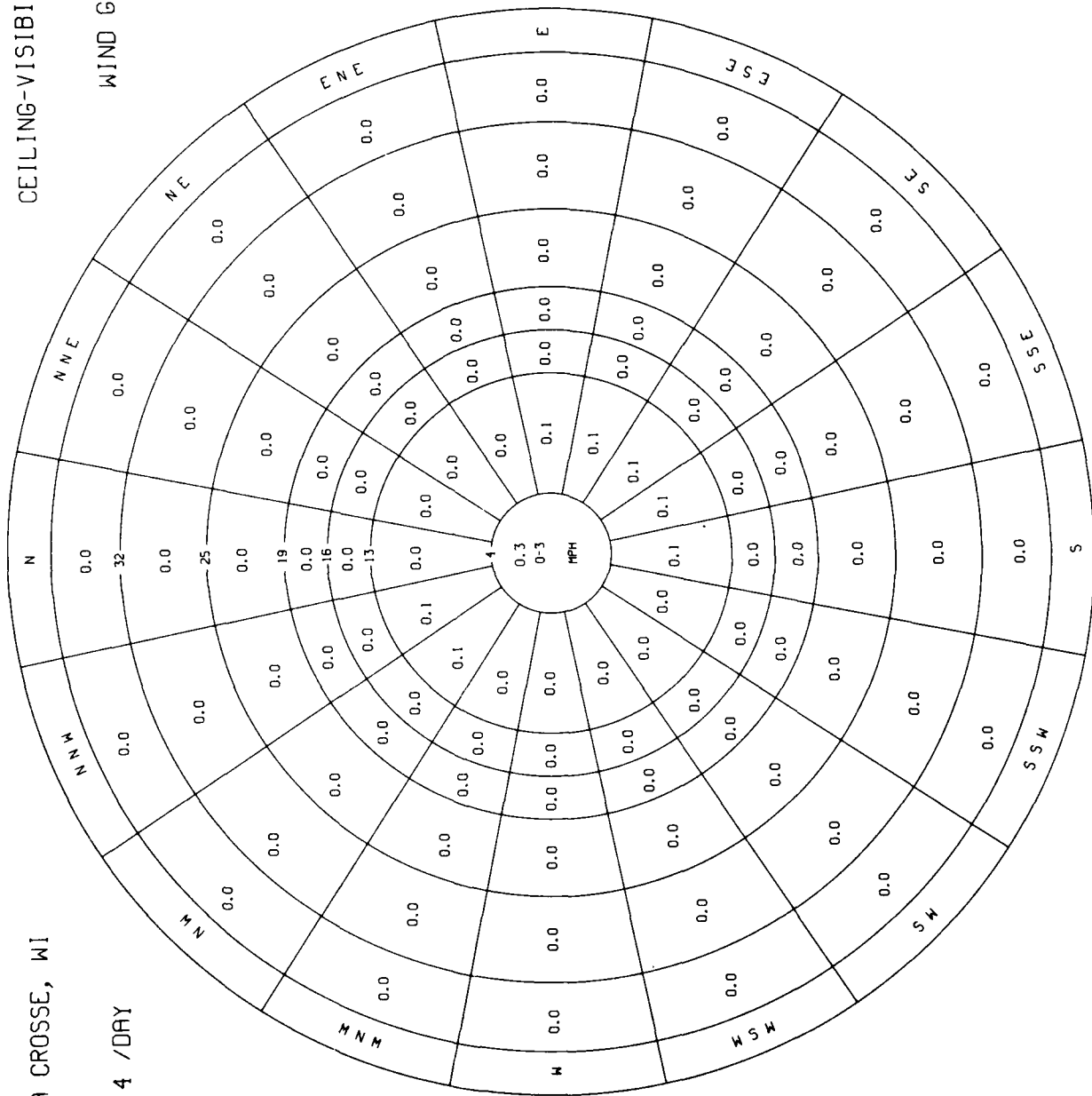
NO. OBS.: 3969

STATION NUMBER: 14920

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.0	.3	.5	4.7	.1	.8	.1	.7	.0	.3	.0	.1	.0	.0	.7	6.8	10.3
NNE	.0	.1	.2	2.1	.0	.3	.0	.1	.0	.0	.0	.0	.0	.0	.3	2.6	9.3
NE	.0	.2	.2	2.2	.0	.1	.0	.2	.0	.0	.0	.0	.0	.0	.3	2.7	8.4
ENE	.0	.1	.3	2.4	.0	.3	.0	.2	.0	.0	.0	.0	.0	.0	.3	3.0	8.8
E	.0	.2	.6	5.5	.1	.6	.0	.4	.0	.1	.0	.0	.0	.0	.7	6.9	8.9
ESE	.0	.4	.6	5.9	.1	.7	.0	.3	.0	.1	.0	.0	.0	.0	.8	7.3	8.4
SE	.0	.4	.7	6.4	.1	.6	.0	.3	.0	.1	.0	.0	.0	.0	.8	7.8	8.3
SSE	.0	.4	.6	6.0	.1	.7	.0	.3	.0	.0	.0	.0	.0	.0	.8	7.4	8.6
S	.0	.4	.8	7.3	.1	.8	.1	.5	.0	.1	.0	.0	.0	.0	1.0	9.1	8.9
SSW	.0	.2	.2	2.2	.0	.3	.0	.1	.0	.1	.0	.0	.0	.0	.3	2.9	8.9
SW	.0	.1	.1	1.2	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.2	1.5	8.4
WSW	.0	.1	.1	.7	.0	.2	.0	.1	.0	.1	.0	.0	.0	.0	.1	1.1	10.9
W	.0	.1	.2	1.8	.0	.4	.0	.3	.0	.3	.0	.0	.0	.0	.3	2.9	11.2
WNW	.0	.1	.2	2.1	.1	.8	.1	.8	.0	.4	.0	.1	.0	.0	.5	4.3	12.6
NW	.0	.4	.6	5.5	.2	1.5	.2	1.4	.1	.9	.0	.2	.0	.0	1.1	10.0	11.9
NNW	.0	.3	.6	5.8	.2	1.7	.1	1.1	.1	.9	.0	.1	.0	.0	1.0	9.9	11.4
CALM	1.5	14.0													1.5	14.0	
TOTAL	1.9	17.6	6.5	61.7	1.1	10.0	.7	6.8	.3	3.3	.1	.6	.0	.1	10.6	100	8.4

LSE LA CROSSE, WI

CLASS 4 / DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: LSE LA CROSSE, WI

PERIOD: 1951-1978

CLASS 4 / DAY

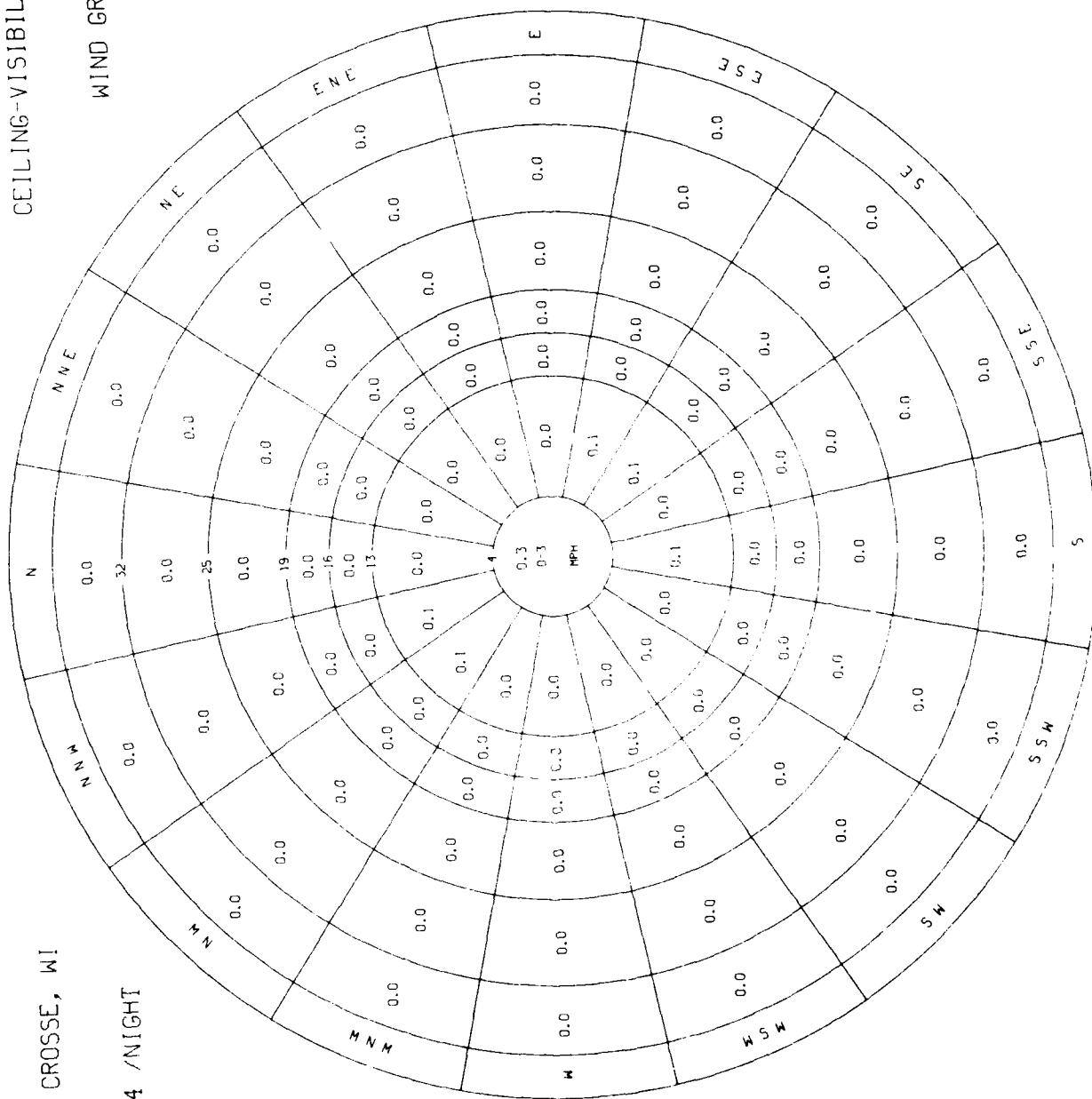
STATION NUMBER: 14920

NO. OBS.: 548

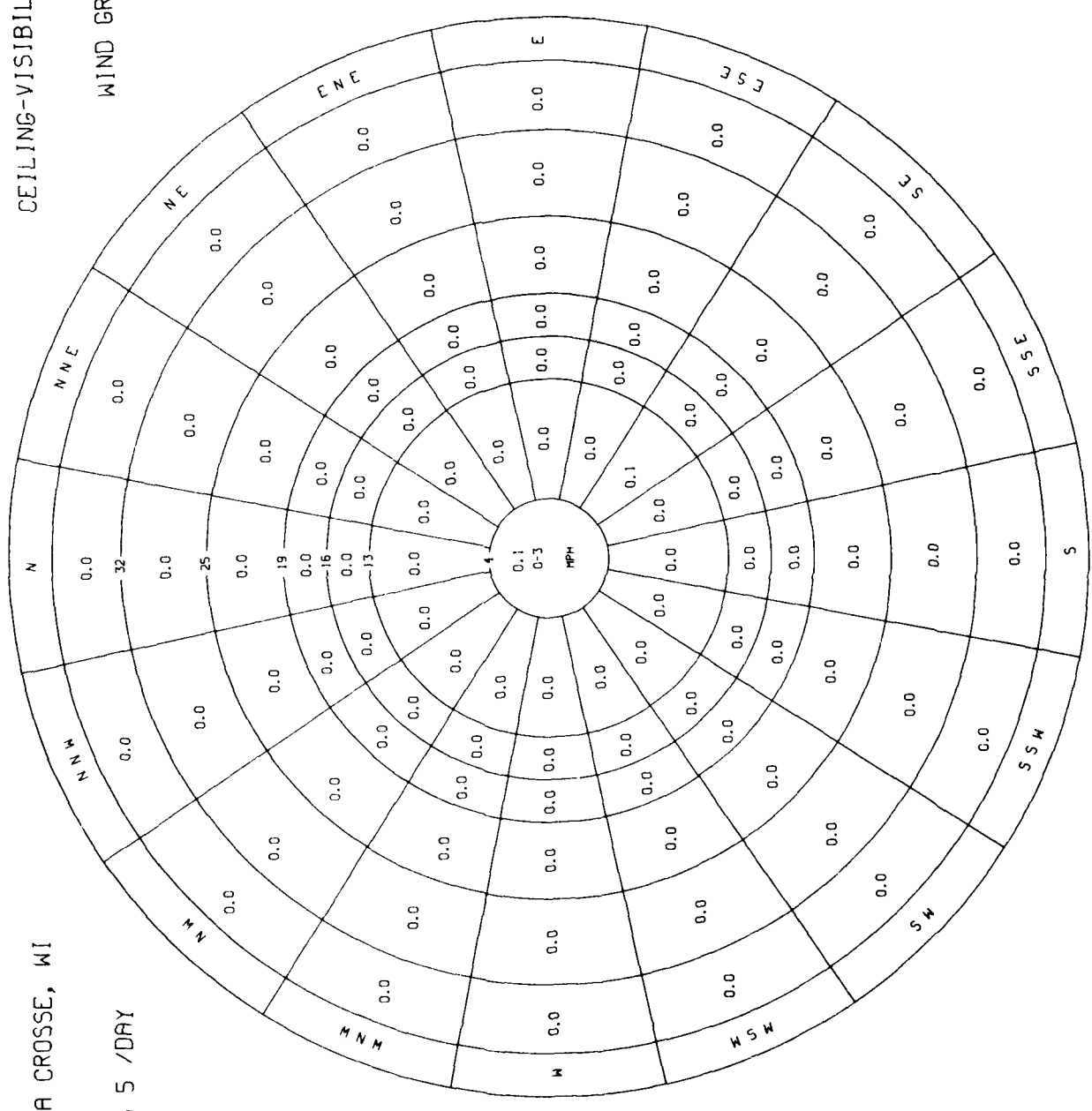
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED			
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C	D
N	.0	.2	.0	3.6	.0	1.1	.0	1.1	.0	.5	.0	.0	.0	.0	.0	.1	6.6	12.2
NNE	.0	.0	.0	1.8	.0	.4	.0	.4	.0	.7	.0	.0	.0	.0	.0	.0	3.3	11.7
N	.0	.0	.0	1.3	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	1.5	8.4
ENE	.0	.2	.0	1.6	.0	.4	.0	.7	.0	.4	.0	.0	.0	.0	.0	.0	3.3	11.2
E	.0	.9	.1	5.8	.0	.9	.0	.4	.0	.0	.0	.0	.0	.0	.0	.1	8.0	8.1
ESE	.0	.2	.1	7.7	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.1	8.4	7.3
SE	.0	.9	.1	7.5	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.1	8.6	6.5
SSE	.0	.4	.1	6.4	.0	.2	.0	.4	.0	.0	.0	.0	.0	.0	.0	.1	7.3	7.4
S	.0	.2	.1	7.1	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	8.0	7.9
SSW	.0	.2	.0	.7	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	7.2
SW	.0	.2	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	6.0
WSW	.0	.0	.0	.4	.0	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.7	15.7
W	.0	.0	.0	.9	.0	.2	.0	.2	.0	.0	.0	.2	.0	.2	.0	.0	1.6	14.8
WNW	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	6.0
NW	.0	.2	.1	5.1	.0	.7	.0	.9	.0	.4	.0	.7	.0	.0	.0	.1	8.0	11.9
NNW	.0	.7	.1	6.4	.0	.7	.0	1.3	.0	1.5	.0	.2	.0	.0	.0	.1	10.8	11.1
CALM	.3	21.4														.3	21.4	
TOTAL	.3	25.5	.7	57.7	.1	5.5	.1	6.2	.0	3.6	.0	1.3	.0	.2	.0	.2	100	7.3

USE LA CROSSE, WI

CLASS 4 / NIGHT



CEILING-VISIBILITY
WIND GRAPH



LSE LA CROSSE, WI
CLASS 5 /DAY

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: LSE LA CROSSE, WI

PERIOD: 1951-1978

CLASS 5 / DAY

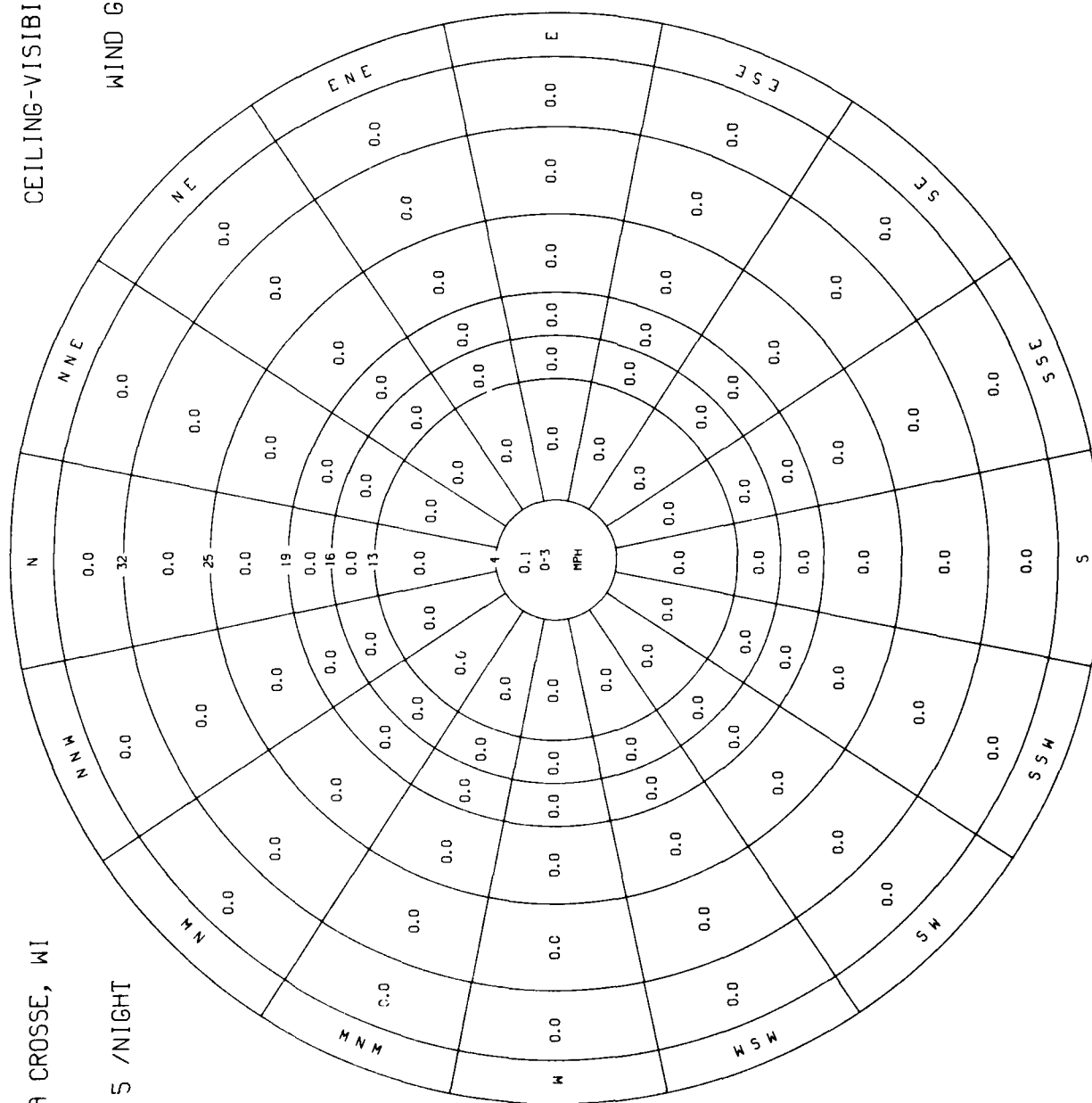
STATION NUMBER: 14920

NO. OBS.: 178

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	1.1	.0	1.7	.0	1.1	.0	.6	.0	1.7	.0	.0	.0	.0	6.2
NNE	.0	.0	.0	1.1	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	2.2
NE	.0	.0	.0	1.1	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	1.7
ENE	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6
E	.0	.0	.0	6.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.2
ESE	.0	1.1	.0	11.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.4
SE	.0	1.1	.1	15.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	16.3
SSE	.0	.6	.0	4.5	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	6.2
S	.0	2.2	.0	8.4	.0	.6	.0	.0	.0	.6	.0	.0	.0	.0	11.8
SSW	.0	1.1	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.4
SW	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6
WSW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
W	.0	.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1
WNW	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1
NW	.0	.6	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8
NNW	.0	.6	.0	1.1	.0	.0	.0	.6	.0	.6	.0	.0	.0	.0	2.8
CALM	.1	24.7												.1	24.7
TOTAL	.1	33.7	.2	57.3	.0	4.5	.0	1.1	.0	2.8	.0	.0	.0	.4	100

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1951-1978

STATION NAME: LSE LA CROSSE, WI

CLASS 5 / NIGHT

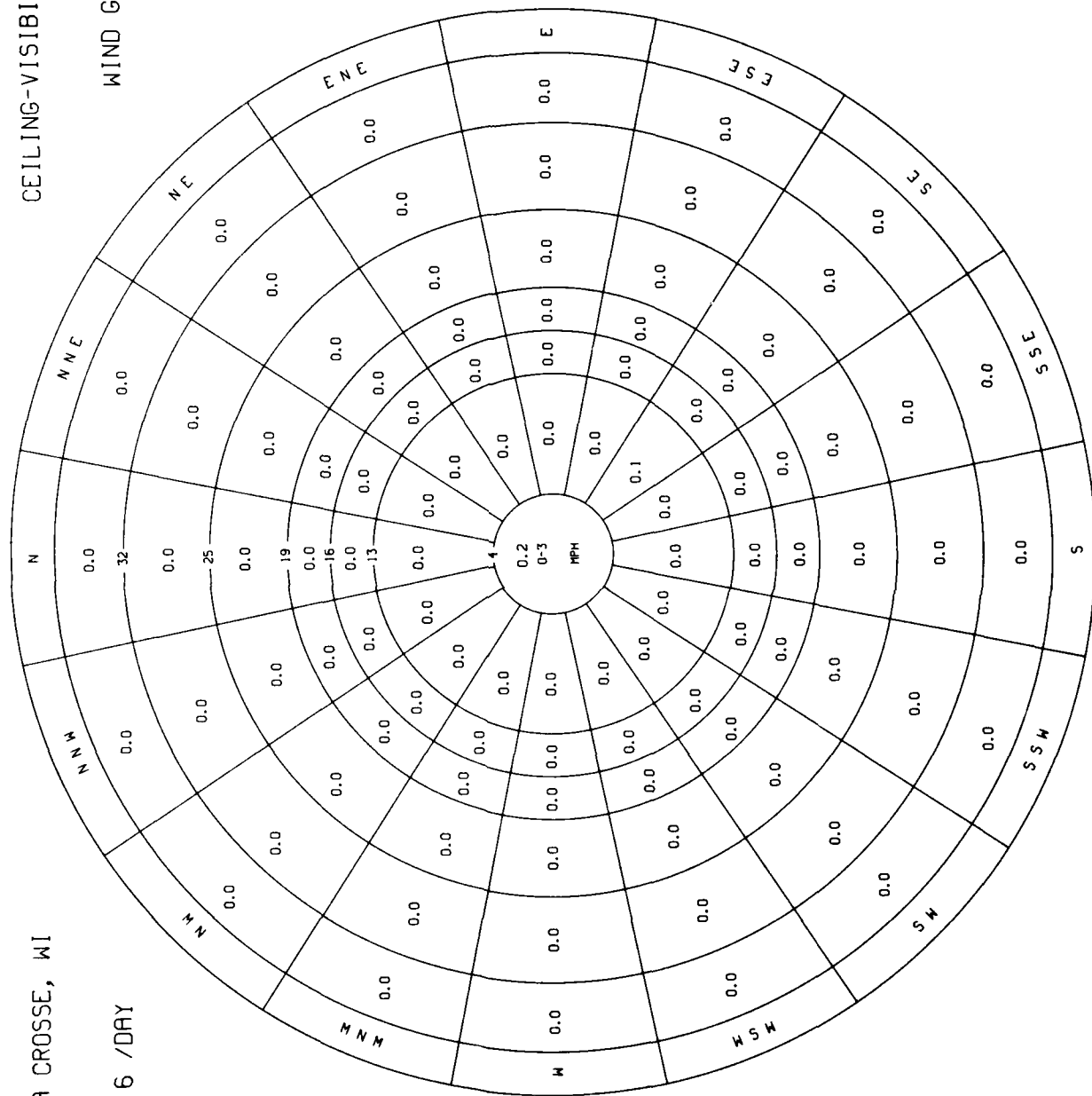
NO. OBS.: 103

STATION NUMBER: 14920

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	1.0	.0	3.9	.0	.0	.0	1.0	.0	1.0	.0	.0	.0	.0	.0 6.8 9.1
NNE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .0 .0
NE	.0	.0	.0	1.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0 1.9 14.5
ENE	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.0 6.0
E	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.9 8.5
ESE	.0	1.0	.0	4.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 5.8 5.2
SE	.0	3.9	.0	5.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 9.7 4.5
SSE	.0	.0	.0	4.9	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0 5.8 9.7
S	.0	1.9	.0	3.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 5.8 5.0
SSW	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.9 9.0
SW	.0	1.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.9 5.5
WSW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .0 .0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0 1.0 20.0
WNW	.0	1.0	.0	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.9 5.0
NW	.0	1.0	.0	4.9	.0	.0	.0	1.0	.0	1.9	.0	.0	.0	.0	.0 8.7 10.3
NNW	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0 1.9 18.5
CALM	.1	41.7													.1 41.7
TOTAL	.1	52.4	.1	38.8	.0	.0	.0	3.9	.0	3.9	.0	1.0	.0	.0	.3 100 4.7

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: LSE LA CROSSE, WI

PERIOD: 1951-1978

CLASS 6 / DAY

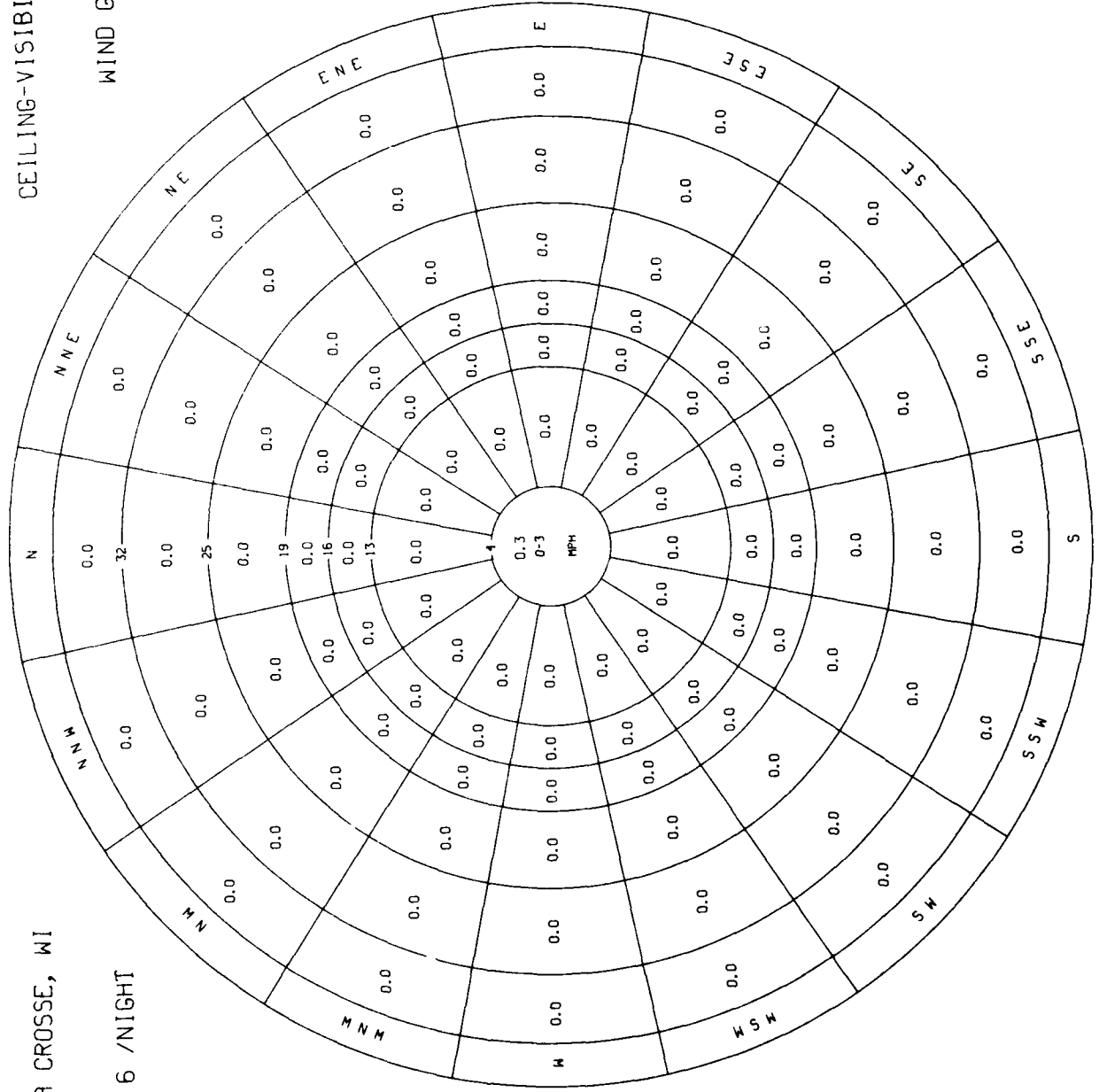
STATION NUMBER: 14920

NO. OBS.: 184

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.0	.0	3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3
NNE	.0	.0	.0	.0	.0	.0	.0	.5	.0	.5	.0	.5	.0	.0	1.6
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
ENE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
E	.0	1.1	.0	3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
ESE	.0	1.6	.0	10.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.3
SE	.0	3.3	.1	14.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	12.5
SSE	.0	.5	.0	6.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.1
S	.0	.0	.0	6.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.2
SSW	.0	1.1	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.6
SW	.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1
WSW	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
WNW	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1
NW	.0	.5	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7
NNW	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2
CALM	.2	37.5												.2	37.5
TOTAL	.2	46.2	.2	52.2	.0	.0	.0	.5	.0	.5	.0	.5	.0	.0	4.0

CEILING-VISIBILITY

WIND GRAPH



LSE LA CROSE, WI

CLASS 6 /NIGHT

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: LSE LA CROSSE, WI

PERIOD: 1951-1978

CLASS 6 / NIGHT

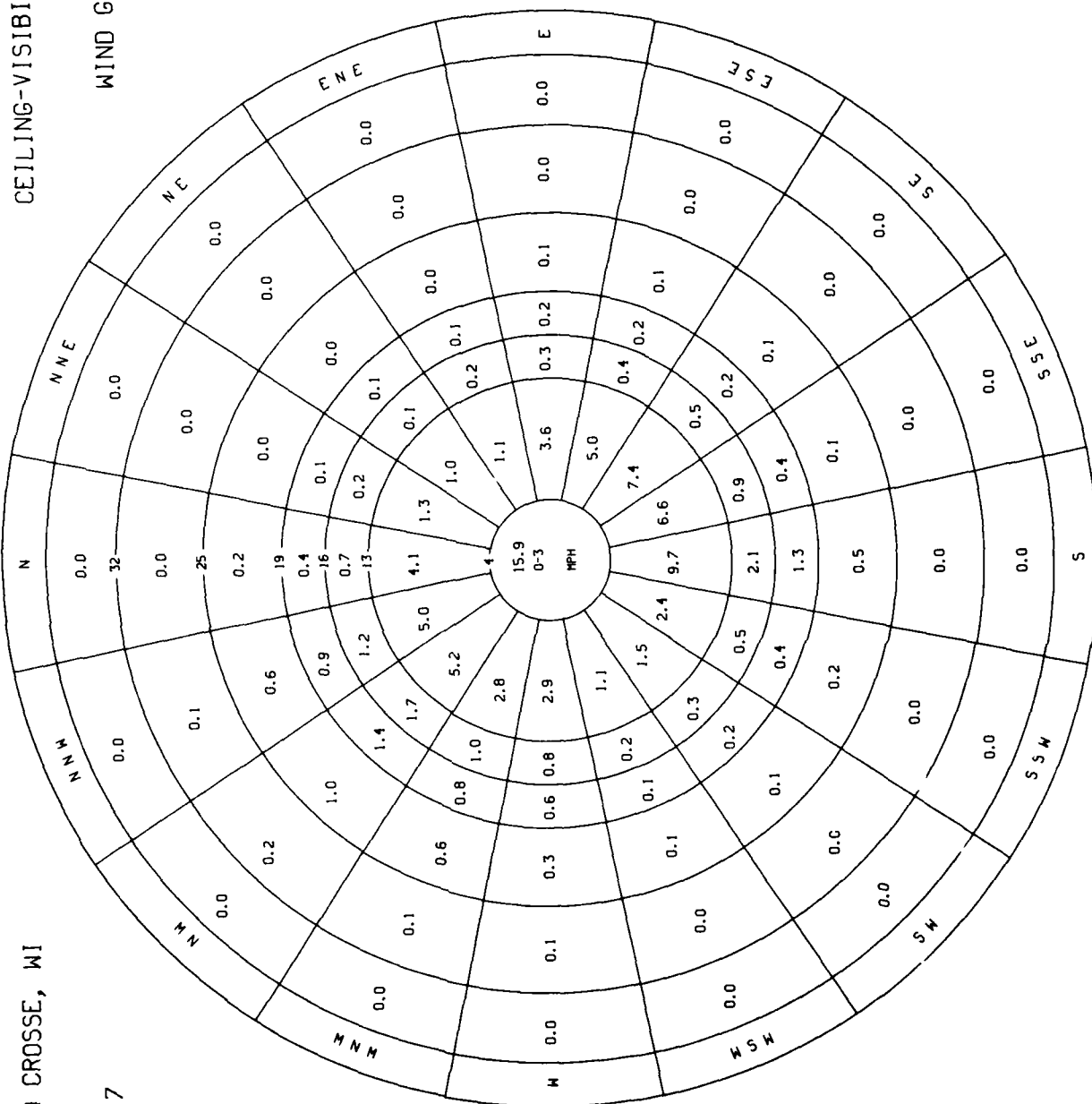
STATION NUMBER: 14920

NO. OBS.: 200

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.5	.0	3.0	.0	.5	.0	.0	.0	.0	.0	.5	.0	.0	.0 4.5
NNE	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .5
NE	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .5
ENE	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .5
E	.0	.5	.0	2.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0 3.0
ESE	.0	1.5	.0	5.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 7.0
SE	.0	1.0	.0	7.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 8.0
SSE	.0	.5	.0	5.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 6.0
S	.0	1.5	.0	8.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1 10.0
SSW	.0	1.5	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.5
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .0
WSW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .0
WNW	.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.0
NW	.0	1.0	.0	1.5	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0 3.0
NNW	.0	.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.0
CALM	.3	51.5													.3 51.5
TOTAL	.3	61.0	.2	37.0	.0	.5	.0	.5	.0	.5	.0	.5	.0	.0	.5 100
															3.1

CEILING-VISIBILITY

WIND GRAPH



LSE LA CROSSE, WI

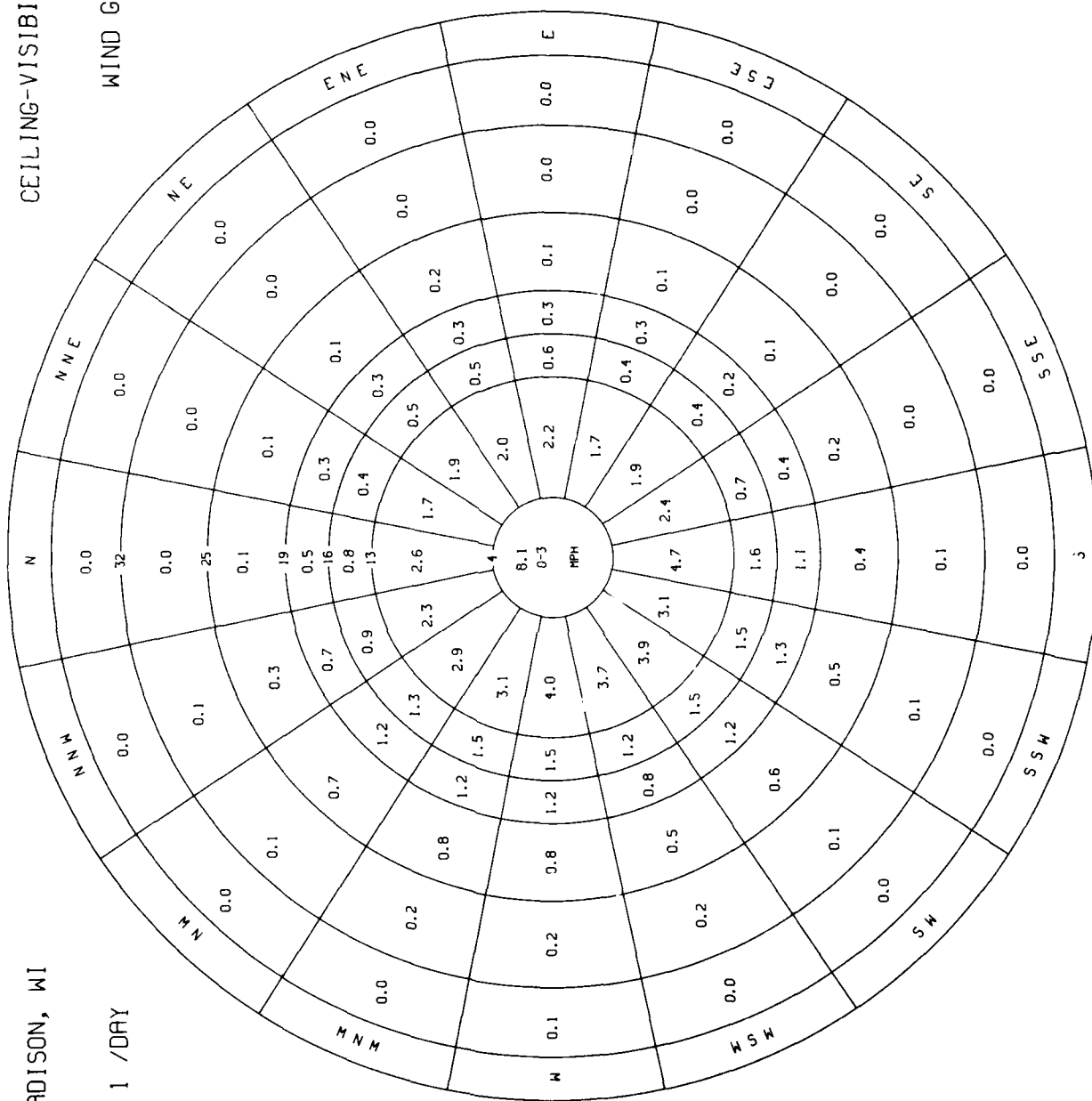
CLASS 7

CEILING-VISIBILITY

WIND GRAPH

MSN MADISON, WI

CLASS 1 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: MSN MADISON, WI

CLASS 1 / DAY

NO. OBS.: 41422

STATION NUMBER: 14837

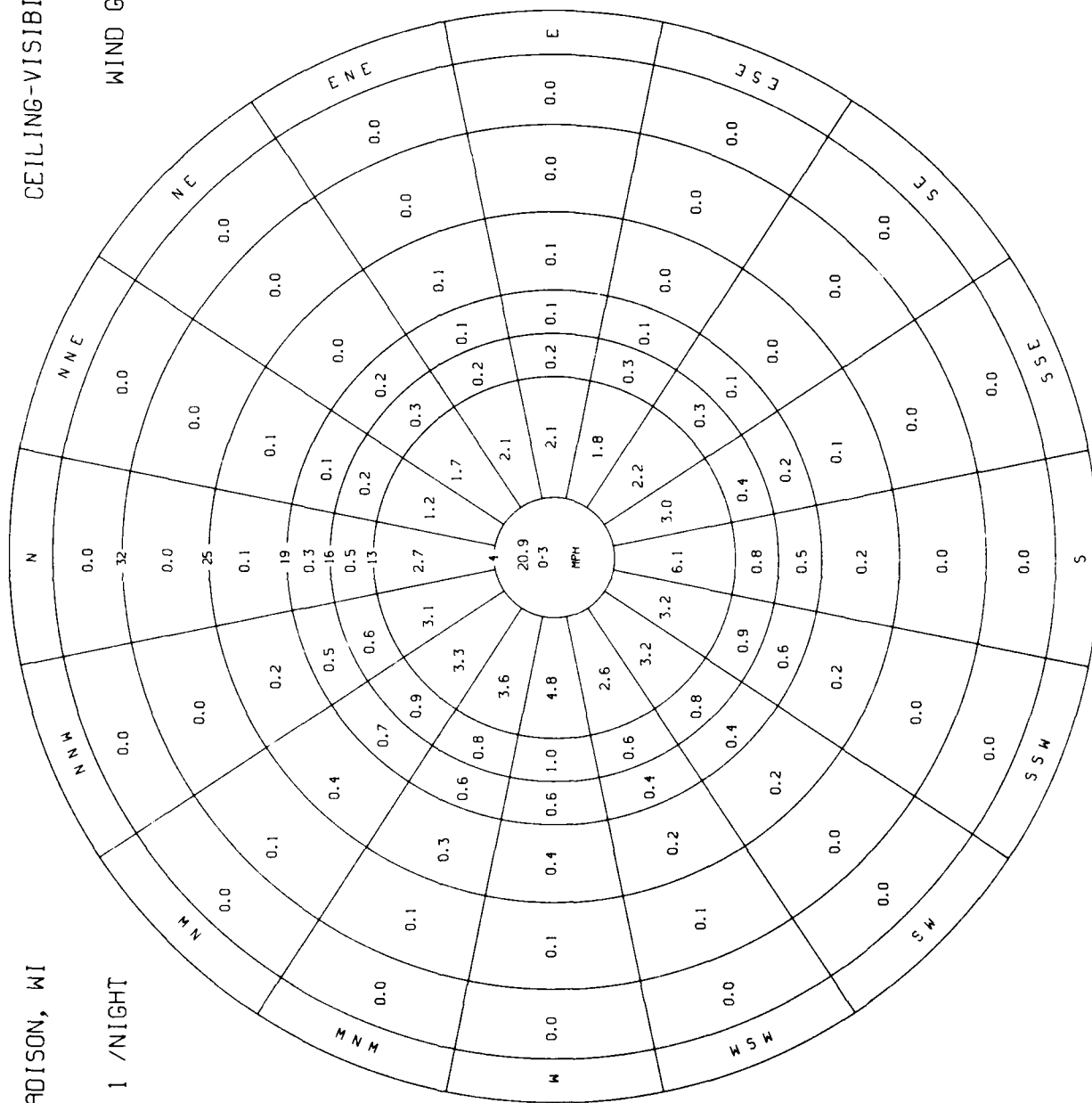
D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.3	.4	2.6	3.0	.8	.9	.5	.6	.1	.2	.0	.0	.0	.0	4.4	5.1	10.5
NNE	.2	.2	1.7	2.0	.4	.5	.3	.3	.1	.1	.0	.0	.0	.0	2.8	3.2	10.4
NE	.3	.4	1.9	2.2	.5	.6	.3	.4	.1	.2	.0	.0	.0	.0	3.2	3.8	10.1
ENE	.3	.4	2.0	2.3	.5	.6	.3	.4	.2	.2	.0	.0	.0	.0	3.3	3.9	10.2
E	.3	.4	2.2	2.5	.6	.6	.3	.3	.1	.1	.0	.0	.0	.0	3.5	4.0	10.0
ESE	.2	.2	1.7	1.9	.4	.5	.3	.3	.1	.1	.0	.0	.0	.0	2.7	3.1	10.2
SE	.3	.4	1.9	2.2	.4	.5	.2	.3	.1	.1	.0	.0	.0	.0	3.0	3.5	9.7
SSE	.3	.4	2.4	2.8	.7	.8	.4	.5	.2	.2	.0	.0	.0	.0	4.0	4.7	10.4
S	.4	.4	4.7	5.5	1.6	1.9	1.1	1.3	.4	.5	.1	.1	.0	.0	8.3	9.7	11.3
SSW	.2	.2	3.1	3.6	1.5	1.7	1.3	1.5	.5	.6	.1	.1	.0	.0	6.7	7.8	12.8
SW	.3	.3	3.9	4.6	1.5	1.8	1.2	1.4	.6	.7	.1	.2	.0	.0	7.7	9.0	12.3
WSW	.3	.3	3.7	4.4	1.2	1.4	.8	1.0	.5	.6	.2	.2	.0	.1	6.8	7.9	12.0
W	.4	.4	4.0	4.7	1.5	1.7	1.2	1.4	.8	.9	.2	.3	.1	.1	8.1	9.4	12.5
WNW	.3	.3	3.1	3.6	1.5	1.7	1.2	1.4	.8	.9	.2	.2	.0	.0	7.0	8.2	13.1
NW	.3	.4	2.9	3.3	1.3	1.5	1.2	1.4	.7	.8	.1	.2	.0	.0	6.6	7.6	12.8
NNW	.3	.3	2.3	2.7	.9	1.0	.7	.9	.3	.4	.1	.1	.0	.0	4.5	5.3	11.7
CALM	3.4	3.9													3.4	3.9	
TOTAL	8.1	9.4	44.0	51.2	15.4	17.9	11.5	13.3	5.6	6.5	1.2	1.4	.2	.2	86.0	100	11.2

CEILING-VISIBILITY

WIND GRAPH

MSN MADISON, WI

CLASS 1 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: MSN MADISON, WI

CLASS 1 / NIGHT

NO. OBS.: 36086

STATION NUMBER: 14837

D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.8	.9	2.7	3.2	.5	.5	.3	.3	.1	.1	.0	.0	.0	.0	4.3	5.1	8.3
NNE	.5	.6	1.2	1.4	.2	.2	.1	.2	.1	.1	.0	.0	.0	.0	2.1	2.4	8.3
NE	1.0	1.2	1.7	2.0	.3	.3	.2	.2	.0	.1	.0	.0	.0	.0	3.2	3.8	7.4
ENE	.9	1.0	2.1	2.4	.2	.3	.1	.2	.1	.1	.0	.0	.0	.0	3.4	4.0	7.2
E	.7	.9	2.1	2.5	.2	.3	.1	.2	.1	.1	.0	.0	.0	.0	3.3	3.8	7.6
ESE	.4	.5	1.8	2.1	.3	.3	.1	.1	.0	.0	.0	.0	.0	.0	2.6	3.1	8.3
SE	.6	.7	2.2	2.6	.3	.3	.1	.1	.0	.1	.0	.0	.0	.0	3.3	3.9	7.8
SSE	.7	.8	3.0	3.6	.4	.4	.2	.2	.1	.1	.0	.0	.0	.0	4.3	5.1	8.1
S	.9	1.1	6.1	7.2	.8	1.0	.5	.6	.2	.2	.0	.0	.0	.0	8.6	10.1	8.8
SSW	.5	.5	3.2	3.8	.8	1.0	.6	.7	.2	.2	.0	.0	.0	.0	5.4	6.3	10.3
SW	.4	.5	3.2	3.8	.9	.9	.4	.5	.2	.2	.0	.1	.0	.0	5.1	6.0	10.3
WSW	.4	.5	2.6	3.0	.6	.7	.4	.5	.2	.2	.1	.1	.0	.0	4.4	5.1	10.6
W	.6	.8	4.8	5.6	1.0	1.2	.6	.7	.4	.4	.1	.2	.0	.0	7.6	8.9	10.4
WNW	.6	.7	3.6	4.2	.8	.9	.6	.6	.3	.3	.1	.1	.0	.0	5.9	6.9	10.2
NW	.7	.8	3.3	3.9	.9	1.1	.7	.8	.4	.5	.1	.1	.0	.0	6.2	7.2	10.5
NNW	.7	.8	3.1	3.6	.6	.7	.5	.5	.2	.2	.0	.0	.0	.0	5.0	5.9	9.1
CALM	10.5	12.3													10.5	12.3	
TOTAL	20.9	24.6	46.8	55.0	8.6	10.1	5.5	6.4	2.5	3.0	.6	.7	.2	.2	85.2	100	8.1

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NATIONAL CLIMATIC CENTER ASHEVILLE NC

F/G 4/2

WIND - CEILING - VISIBILITY DATA AT SELECTED AIRPORTS, VOLUME I--ETC(U)

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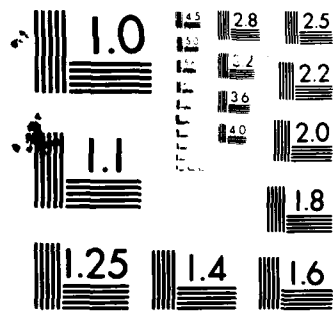
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DATE

FILED

182

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MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MSN MADISON, WI

PERIOD: 1948-1978

CLASS 2 / DAY

STATION NUMBER: 14837

NO. OBS.: 6759

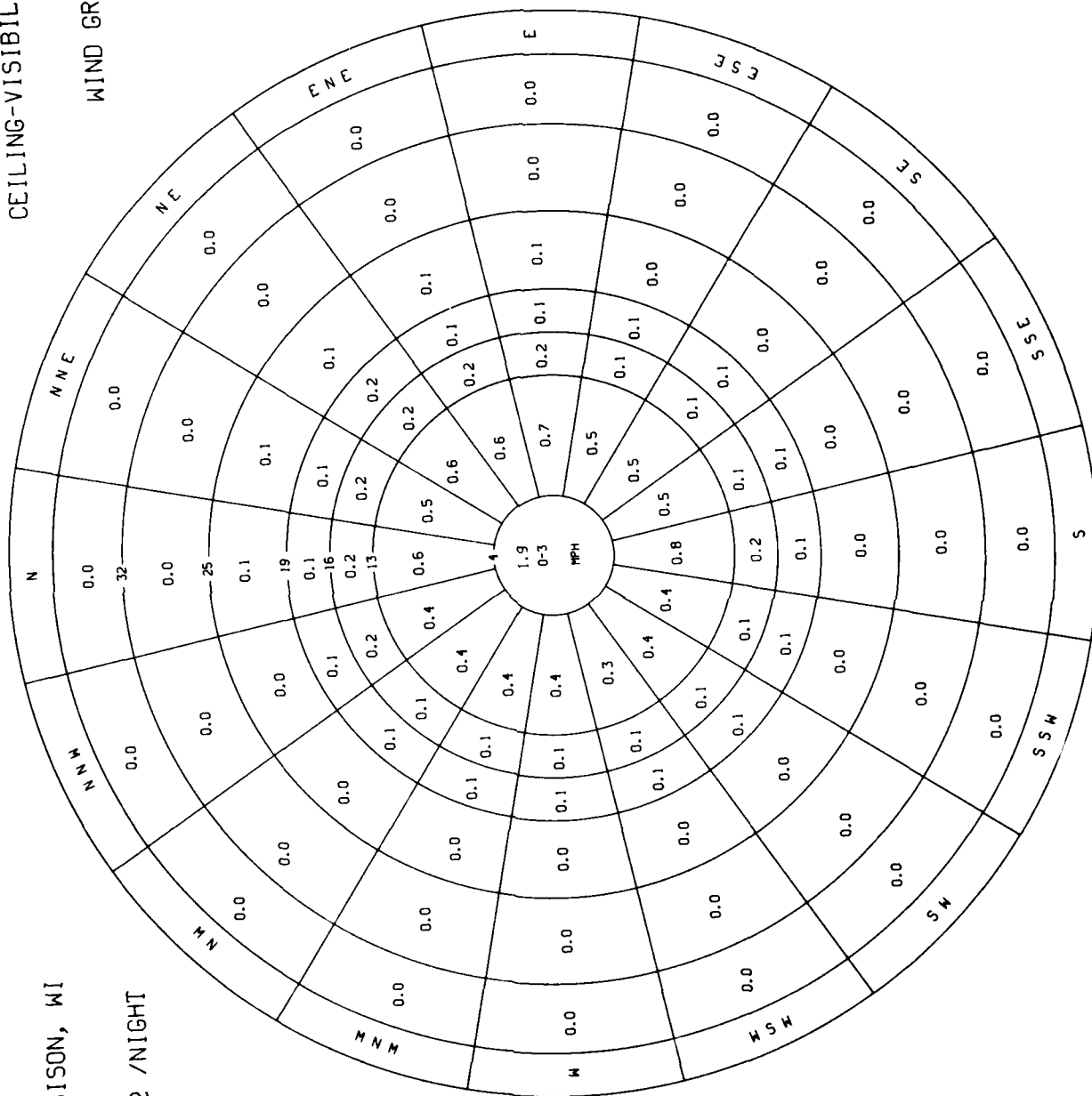
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.3	.6	4.1	.2	1.3	.2	1.2	.1	.7	.0	.1	.0	.0	1.1 7.6
NNE	.1	.4	.4	2.8	.2	1.4	.2	1.1	.1	.8	.0	.3	.0	.1	1.0 6.8
NNE	.1	.5	.5	3.3	.2	1.5	.2	1.4	.1	.8	.0	.2	.0	.1	1.1 7.8
ENE	.0	.3	.5	3.5	.2	1.4	.1	1.0	.1	.5	.0	.2	.0	.0	1.0 6.9
E	.1	.5	.6	4.3	.2	1.4	.1	.9	.1	.5	.0	.1	.0	.0	1.1 7.7
ESE	.1	.4	.5	3.5	.2	1.2	.1	.7	.0	.3	.0	.1	.0	.0	.9 6.2
SE	.0	.3	.5	3.4	.1	.9	.1	.5	.0	.2	.0	.1	.0	.0	.8 5.4
SSE	.1	.4	.5	3.4	.1	1.1	.1	.5	.0	.1	.0	.0	.0	.0	.8 5.5
S	.1	.6	.9	6.1	.2	1.4	.1	.9	.0	.3	.0	.0	.0	.0	1.3 9.4
SSW	.0	.1	.5	3.3	.1	.9	.1	.5	.0	.2	.0	.1	.0	.0	.7 5.1
SW	.0	.3	.3	2.4	.1	.8	.1	.5	.0	.2	.0	.0	.0	.0	.6 4.3
WSW	.0	.1	.3	1.9	.1	.6	.1	.4	.0	.2	.0	.1	.0	.0	.5 3.4
W	.0	.3	.4	2.9	.1	.8	.1	.6	.1	.4	.0	.1	.0	.0	.7 5.0
WNW	.0	.2	.3	1.8	.1	.9	.1	.6	.0	.3	.0	.0	.0	.0	.5 3.8
NW	.1	.4	.4	2.6	.1	.8	.1	.9	.1	.5	.0	.2	.0	.1	.8 5.5
NNW	.0	.3	.4	2.5	.1	.9	.1	.7	.1	.5	.0	.1	.0	.0	.7 5.0
CALM	.6	4.5													.6 4.5
TOTAL	1.4	9.8	7.3	52.0	2.4	17.2	1.7	12.4	.9	6.4	.3	1.8	.0	.4	14.0 100

CEILING-VISIBILITY

WIND GRAPH

MSN MADISON, WI

CLASS 2 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MSN MADISON, WI

PERIOD: 1948-1978

CLASS 2 / NIGHT

STATION NUMBER: 14837

NO. OBS.: 6274

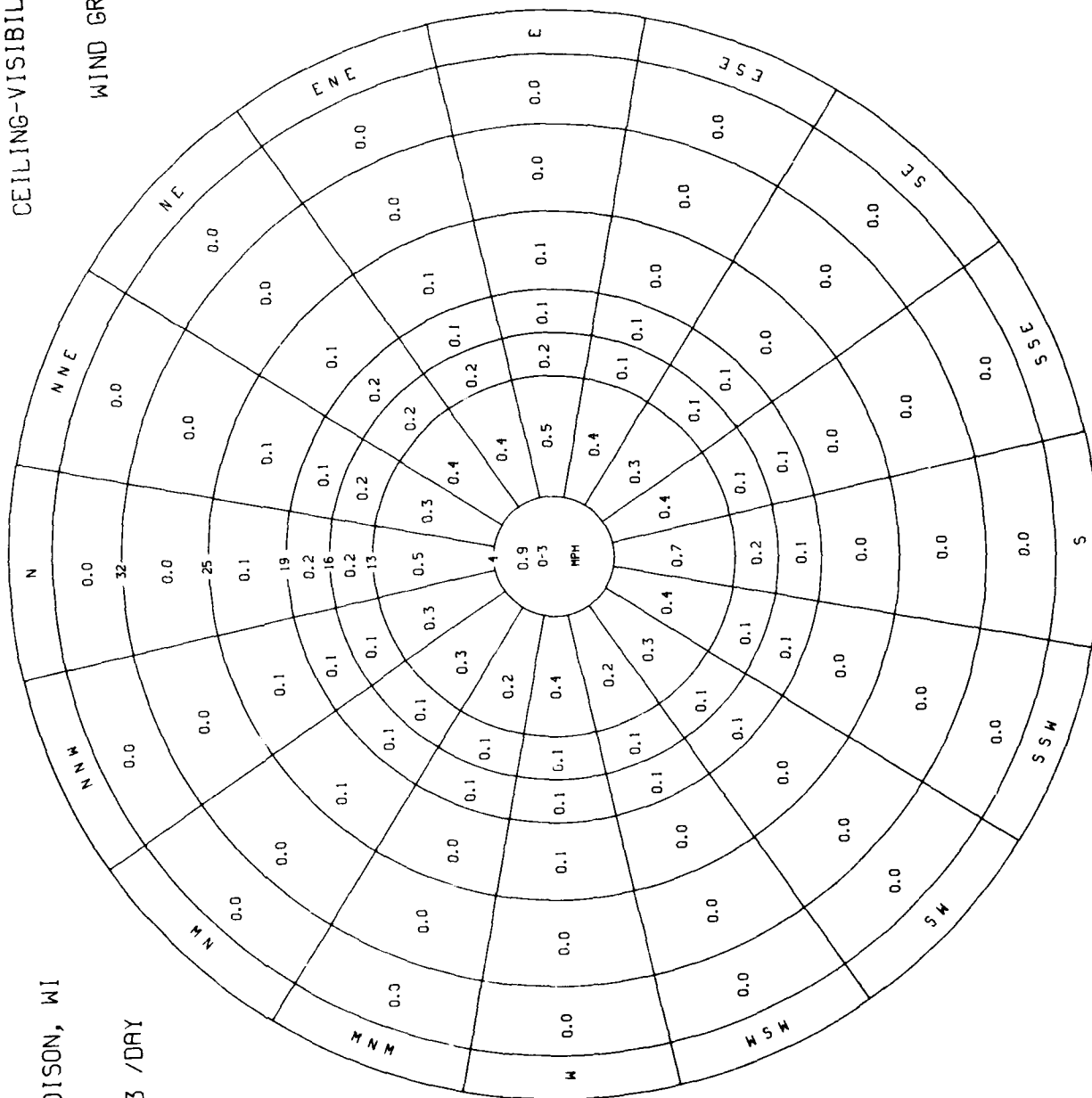
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.1	.6	.6	4.4	.2	1.5	.1	1.0	.1	.6	.0	.2	.0	.0	1.2 8.2 11.4
NNE	.1	.4	.5	3.2	.2	1.3	.1	1.0	.1	.6	.0	.3	.0	.1	1.0 6.9 12.6
NNE	.1	.6	.6	3.7	.2	1.1	.2	1.1	.1	.7	.0	.3	.0	.0	1.1 7.5 11.9
ENE	.1	.5	.6	4.2	.2	1.1	.1	.7	.1	.4	.0	.2	.0	.0	1.1 7.1 10.9
E	.1	.6	.7	4.7	.2	1.1	.1	.8	.1	.4	.0	.1	.0	.0	1.1 7.7 10.4
ESE	.0	.3	.5	3.2	.1	.8	.1	.6	.0	.3	.0	.0	.0	.0	.8 5.1 10.9
SE	.1	.5	.5	3.2	.1	.7	.1	.5	.0	.3	.0	.0	.0	.0	.8 5.2 10.0
SSE	.1	.4	.5	3.3	.1	.7	.1	.5	.0	.1	.0	.0	.0	.0	.8 5.1 10.0
S	.1	.7	.8	5.2	.2	1.2	.1	.8	.0	.3	.0	.0	.0	.0	1.2 8.1 10.0
SSW	.0	.2	.4	2.6	.1	.6	.1	.6	.0	.3	.0	.1	.0	.0	.6 4.4 11.4
SW	.1	.4	.4	3.0	.1	.7	.1	.4	.0	.2	.0	.0	.0	.0	.7 4.8 10.6
WSW	.0	.2	.3	2.0	.1	.5	.1	.5	.0	.3	.0	.1	.0	.0	.5 3.6 11.4
W	.0	.2	.4	3.0	.1	.8	.1	.5	.0	.3	.0	.2	.0	.0	.7 4.9 11.5
WNW	.0	.3	.4	2.6	.1	.7	.1	.5	.0	.3	.0	.1	.0	.0	.7 4.6 11.5
NW	.1	.6	.4	2.5	.1	.9	.1	.7	.0	.3	.0	.1	.0	.0	.8 5.1 11.0
NNW	.1	.4	.4	2.6	.2	1.3	.1	.9	.0	.3	.0	.1	.0	.0	.8 5.7 11.7
CALM	.9	6.0													.9 6.0
TOTAL	1.9	13.0	7.9	53.2	2.2	15.2	1.6	11.1	.8	5.5	.3	1.9	.0	.2	14.8 100 10.4

CEILING-VISIBILITY

WIND GRAPH

MSN MADISON, WI

CLASS 3 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MSN MADISON, WI

PERIOD: 1948-1978

CLASS 3 / DAY

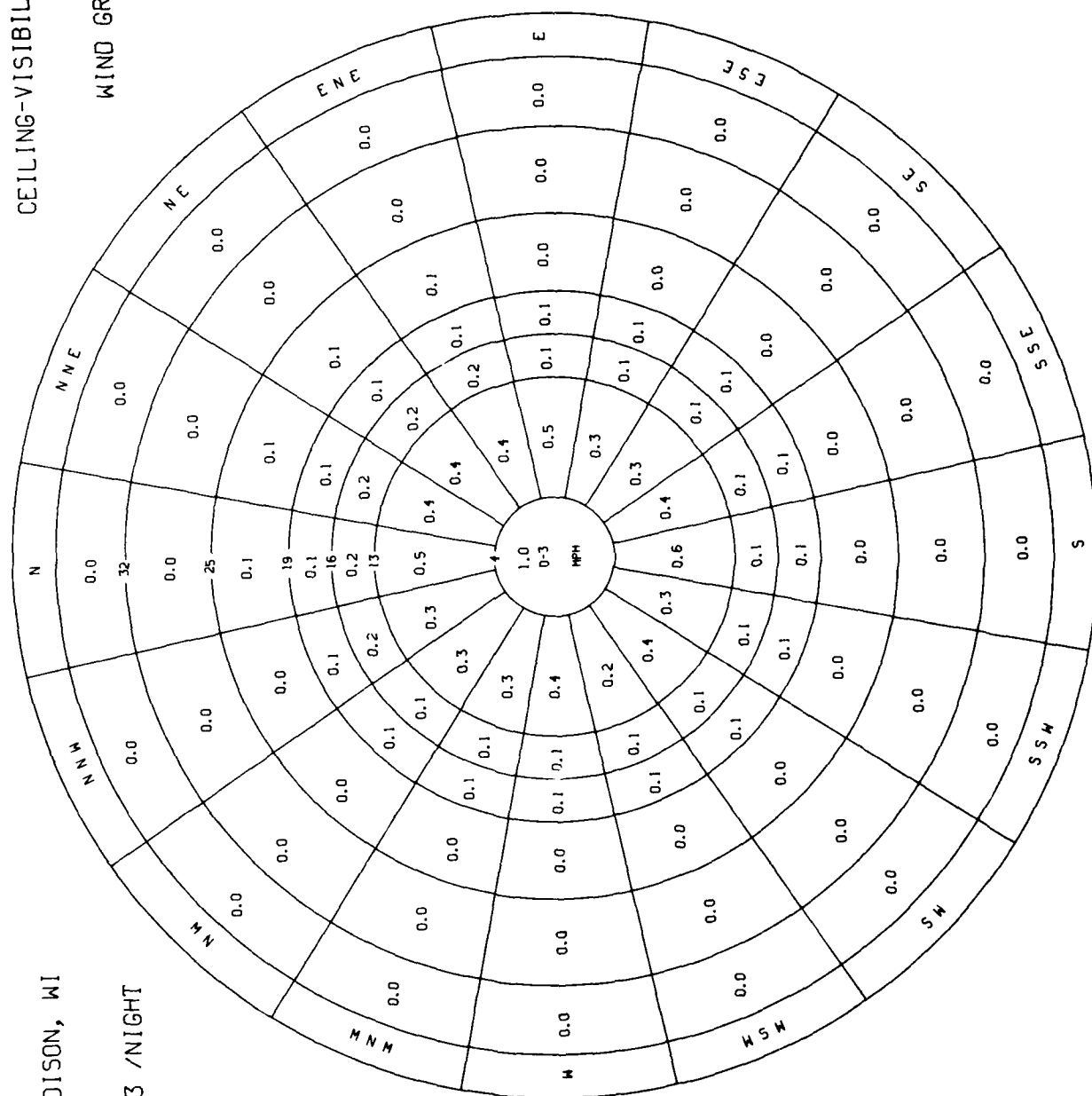
STATION NUMBER: 14837

NO. OBS.: 5571

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.0	.2	.5	4.2	.2	1.5	.2	1.3	.1	.7	.0	.1	.0	.0	.9	7.9	12.2
NNE	.0	.3	.3	2.7	.2	1.5	.1	1.2	.1	.8	.0	.2	.0	.0	.8	6.8	13.4
NE	.0	.4	.4	3.1	.2	1.6	.2	1.5	.1	.8	.0	.2	.0	.0	.9	7.7	13.1
ENE	.0	.1	.4	3.3	.2	1.6	.1	1.1	.1	.6	.0	.2	.0	.0	.8	6.9	12.6
E	.1	.5	.5	3.9	.2	1.5	.1	1.0	.1	.6	.0	.2	.0	.0	.9	7.6	11.8
ESE	.0	.3	.4	3.2	.1	1.2	.1	.7	.0	.4	.0	.1	.0	.0	.7	5.9	11.7
SE	.0	.3	.3	2.9	.1	1.0	.1	.5	.0	.2	.0	.1	.0	.0	.6	4.9	10.8
SSE	.0	.3	.4	3.3	.1	1.1	.1	.5	.0	.2	.0	.0	.0	.0	.6	5.4	10.7
S	.0	.4	.7	5.9	.2	1.5	.1	1.0	.0	.3	.0	.0	.0	.0	1.0	9.0	10.6
SSW	.0	.1	.4	3.2	.1	1.0	.1	.6	.0	.2	.0	.1	.0	.0	.6	5.2	11.4
SW	.0	.3	.3	2.6	.1	1.0	.1	.6	.0	.2	.0	.0	.0	.0	.6	4.8	11.3
WSW	.0	.1	.2	2.1	.1	.6	.1	.5	.0	.2	.0	.1	.0	.0	.4	3.7	11.9
W	.0	.3	.4	3.3	.1	.9	.1	.7	.1	.4	.0	.1	.0	.0	.6	5.6	11.7
WNW	.0	.2	.2	1.9	.1	1.1	.1	.7	.0	.3	.0	.0	.0	.0	.5	4.2	12.1
NW	.0	.4	.3	2.8	.1	.9	.1	1.1	.1	.6	.0	.2	.0	.0	.7	5.9	12.5
NNW	.0	.2	.3	2.6	.1	1.0	.1	.8	.1	.5	.0	.1	.0	.0	.6	5.2	12.2
CALM	.4	3.2													.4	3.2	
TOTAL	.9	7.6	5.9	51.0	2.2	18.9	1.6	13.6	.8	7.0	.2	1.7	.0	.2	11.6	100	11.5

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MSN MADISON, WI

PERIOD: 1948-1978

CLASS 3 / NIGHT

STATION NUMBER: 14837

NO. OBS.: 4904

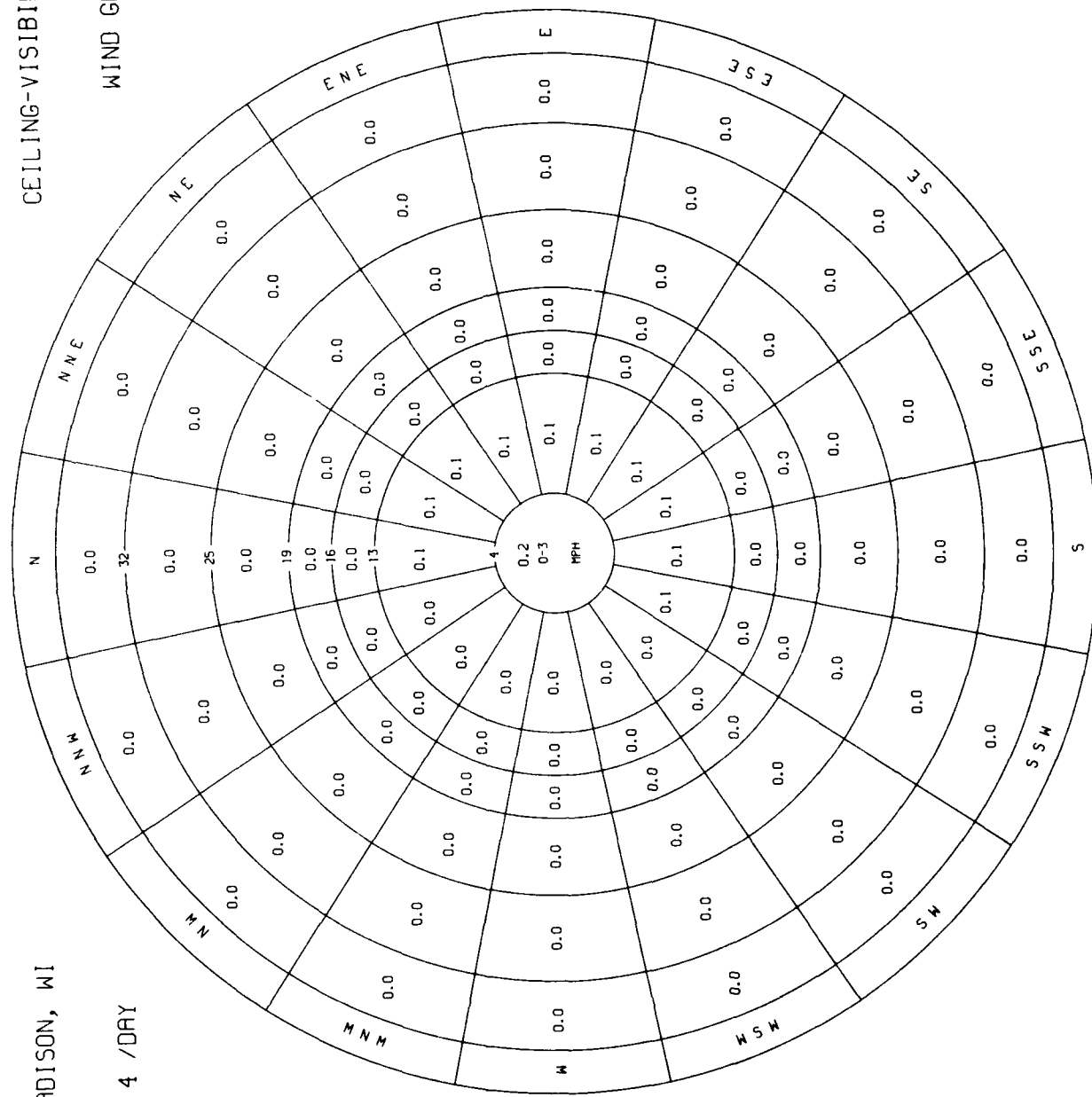
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B		C	D
N	.0	.4	.5	4.2	.2	1.7	.1	1.1	.1	.7	.0	.2	.0	.0	1.0	8.4	11.9
NNE	.0	.3	.4	3.2	.2	1.5	.1	1.2	.1	.7	.0	.3	.0	.1	.8	7.3	13.1
NENE	.0	.4	.4	3.6	.2	1.3	.1	1.3	.1	.8	.0	.3	.0	.0	.9	7.7	12.8
ENE	.0	.4	.4	3.6	.2	1.3	.1	.7	.1	.5	.0	.2	.0	.0	.8	6.7	11.7
E	.0	.4	.5	4.1	.1	1.2	.1	.9	.0	.4	.0	.2	.0	.0	.8	7.2	11.4
ESE	.0	.1	.3	2.7	.1	.8	.1	.7	.0	.3	.0	.0	.0	.0	.5	4.7	11.8
SE	.0	.4	.3	2.7	.1	.7	.1	.4	.0	.2	.0	.0	.0	.0	.5	4.5	10.4
SSE	.0	.3	.4	3.1	.1	.8	.1	.5	.0	.2	.0	.0	.0	.0	.6	4.9	10.5
S	.1	.5	.6	5.0	.1	1.2	.1	.8	.0	.3	.0	.0	.0	.0	.9	7.9	10.4
SSW	.0	.1	.3	2.5	.1	.7	.1	.8	.0	.3	.0	.1	.0	.0	.5	4.6	12.1
SW	.0	.4	.4	3.3	.1	.9	.1	.5	.0	.3	.0	.0	.0	.0	.6	5.5	11.0
WSW	.0	.2	.2	2.1	.1	.6	.1	.7	.0	.3	.0	.1	.0	.0	.5	4.0	12.0
W	.0	.1	.4	3.4	.1	1.0	.1	.6	.0	.4	.0	.2	.0	.0	.7	5.8	11.7
WNW	.0	.3	.3	3.0	.1	.9	.1	.7	.0	.3	.0	.2	.0	.0	.6	5.3	11.7
NW	.1	.5	.3	2.8	.1	1.1	.1	.8	.0	.4	.0	.1	.0	.0	.7	5.8	11.5
NNW	.0	.2	.3	2.7	.2	1.6	.1	1.1	.0	.4	.0	.1	.0	.0	.7	6.1	12.5
CALM	.4	3.5													.4	3.5	
TOTAL	1.0	8.6	6.0	52.1	2.0	17.6	1.5	12.9	.8	6.5	.2	2.1	.0	.2	11.6	100	11.3

CEILING-VISIBILITY

WIND GRAPH

MSN MADISON, WI

CLASS 4 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MSN MADISON, WI

PERIOD: 1948-1978

CLASS 4 / DAY

STATION NUMBER: 14837

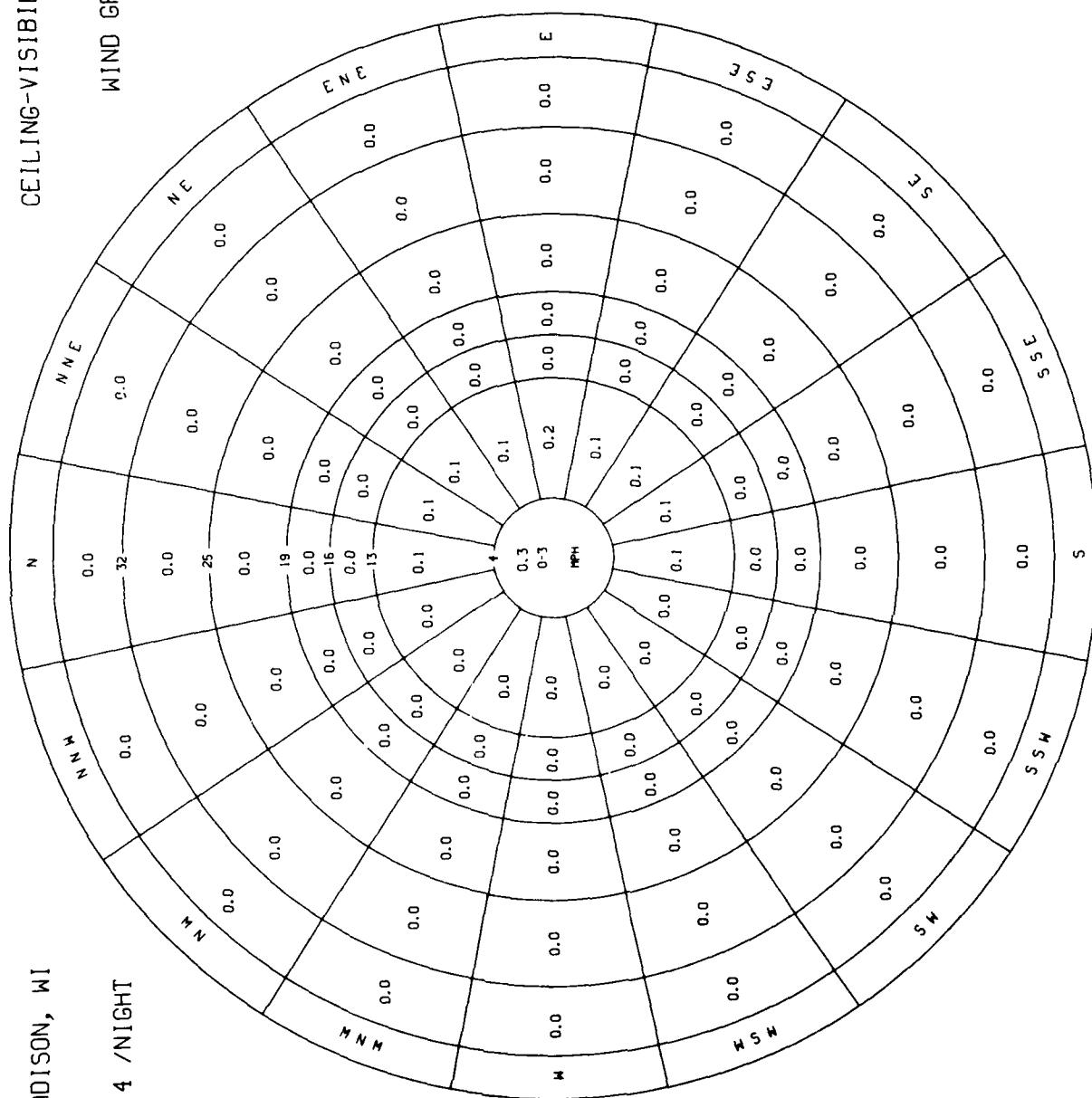
NO. OBS.: 733

DIR	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.1	.1	4.2	.0	.4	.0	1.0	.0	.8	.0	.3	.0	.0	.1 6.8
NNE	.0	.4	.1	3.8	.0	1.1	.0	1.1	.0	.5	.0	.7	.0	.4	.1 8.0
NNE	.0	.3	.1	4.8	.0	1.8	.0	1.1	.0	.8	.0	.5	.0	.1	.1 9.4
ENE	.0	1.1	.1	5.2	.0	.5	.0	.4	.0	.4	.0	.4	.0	.0	.1 8.0
E	.0	.4	.1	5.7	.0	1.2	.0	.8	.0	.1	.0	.1	.0	.0	.1 8.5
ESE	.0	.8	.1	4.6	.0	.8	.0	.7	.0	.3	.0	.0	.0	.0	.1 7.2
SE	.0	.3	.1	5.3	.0	1.0	.0	.7	.0	.1	.0	.0	.0	.0	.1 7.4
SSE	.0	.8	.1	4.2	.0	.7	.0	.4	.0	.0	.0	.0	.0	.0	.1 6.1
S	.0	.7	.1	7.1	.0	1.4	.0	.8	.0	.4	.0	.0	.0	.0	.2 10.4
SSW	.0	.1	.1	3.8	.0	.7	.0	.4	.0	.0	.0	.0	.0	.0	.1 5.0
SW	.0	.1	.0	2.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.6
WSW	.0	.0	.0	1.0	.0	.4	.0	.1	.0	.1	.0	.0	.0	.0	.0 1.6
W	.0	.3	.0	1.4	.0	.4	.0	.1	.0	.0	.0	.0	.0	.0	.0 2.2
WNW	.0	.1	.0	1.9	.0	.1	.0	.1	.0	.1	.0	.1	.0	.0	.0 2.6
NW	.0	.4	.0	1.5	.0	.4	.0	.3	.0	.1	.0	.4	.0	.3	.1 3.4
NNW	.0	.5	.0	2.0	.0	.5	.0	.7	.0	.5	.0	.3	.0	.0	.1 4.6
CALM	.1	6.0													.1 6.0
TOTAL	.2	12.6	.9	58.7	.2	11.9	.1	8.7	.1	4.5	.0	2.9	.0	.8	1.5 10.2

WIND GRAPH

MSN MADISON, WI

CLASS 4 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MSN MADISON, WI

PERIOD: 1948-1978

CLASS 4 / NIGHT

STATION NUMBER: 14837

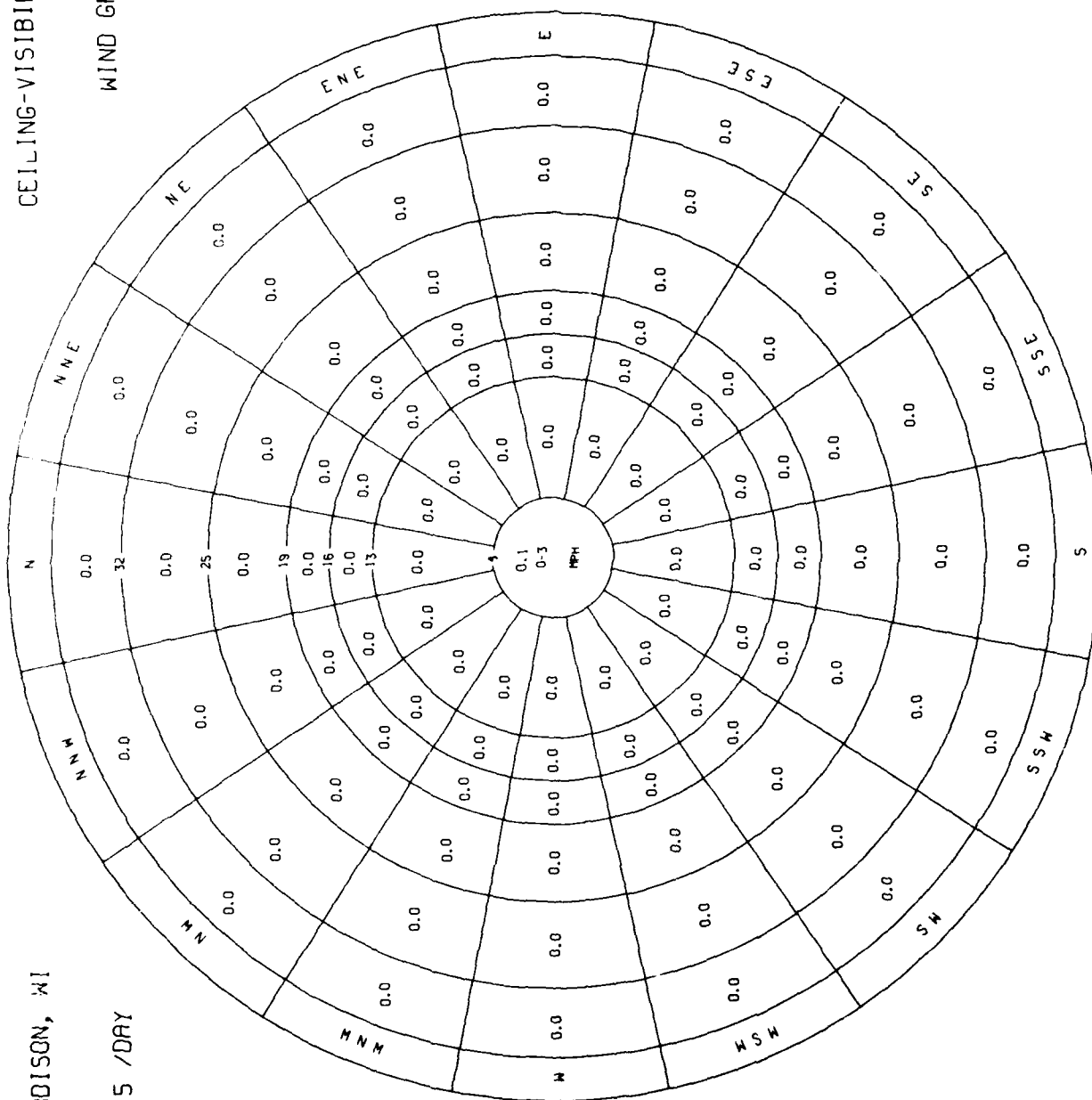
NO. OBS.: 768

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.7	.1	4.7	.0	.9	.0	1.0	.0	.4	.0	.3	.0	.0	.1 7.9 10.8
NNE	.0	.4	.1	4.2	.0	.9	.0	.5	.0	.4	.0	.4	.0	.1	.1 6.9 11.5
NENE	.0	.5	.1	4.6	.0	.7	.0	.7	.0	.3	.0	.1	.0	.0	.1 6.8 9.9
ENE	.0	.7	.1	7.9	.0	.7	.0	.5	.0	.3	.0	.1	.0	.0	.2 10.2 9.4
E	.0	.7	.2	9.0	.0	.8	.0	.5	.0	.1	.0	.1	.0	.0	.2 11.2 8.4
ESE	.0	.4	.1	5.7	.0	.8	.0	.5	.0	.1	.0	.0	.0	.0	.1 7.6 9.2
SE	.0	.5	.1	5.2	.0	.8	.0	.8	.0	.3	.0	.0	.0	.0	.1 7.6 9.8
SSE	.0	.9	.1	2.9	.0	.7	.0	.5	.0	.1	.0	.0	.0	.0	.1 5.1 9.1
S	.0	.8	.1	6.0	.0	1.2	.0	1.0	.0	.0	.0	.0	.0	.0	.2 9.0 9.3
SSW	.0	.1	.0	2.7	.0	.5	.0	.0	.0	.1	.0	.0	.0	.0	.1 3.5 9.6
SW	.0	.5	.0	2.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1 3.0 8.1
WSW	.0	.3	.0	2.5	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	.1 3.0 8.5
W	.0	.1	.0	1.8	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0 2.2 9.1
WNW	.0	.0	.0	1.8	.0	.1	.0	.0	.0	.1	.0	.1	.0	.0	.0 2.2 10.2
NW	.0	.4	.0	1.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.2 8.1
NNW	.0	1.2	.0	2.2	.0	.1	.0	.3	.0	.1	.0	.1	.0	.1	.1 4.2 8.8
CALM	.1	7.6													.1 7.6
TOTAL	.3	15.6	1.2	65.0	.2	8.7	.1	6.5	.0	2.3	.0	1.4	.0	.4	1.8 100 8.7

MSN MADISON, WI

WIND GRAPH

CLASS 5 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MSN MADISON, WI

PERIOD: 1948-1978

CLASS 5 / DAY

STATION NUMBER: 14837

NO. OBS.: 220

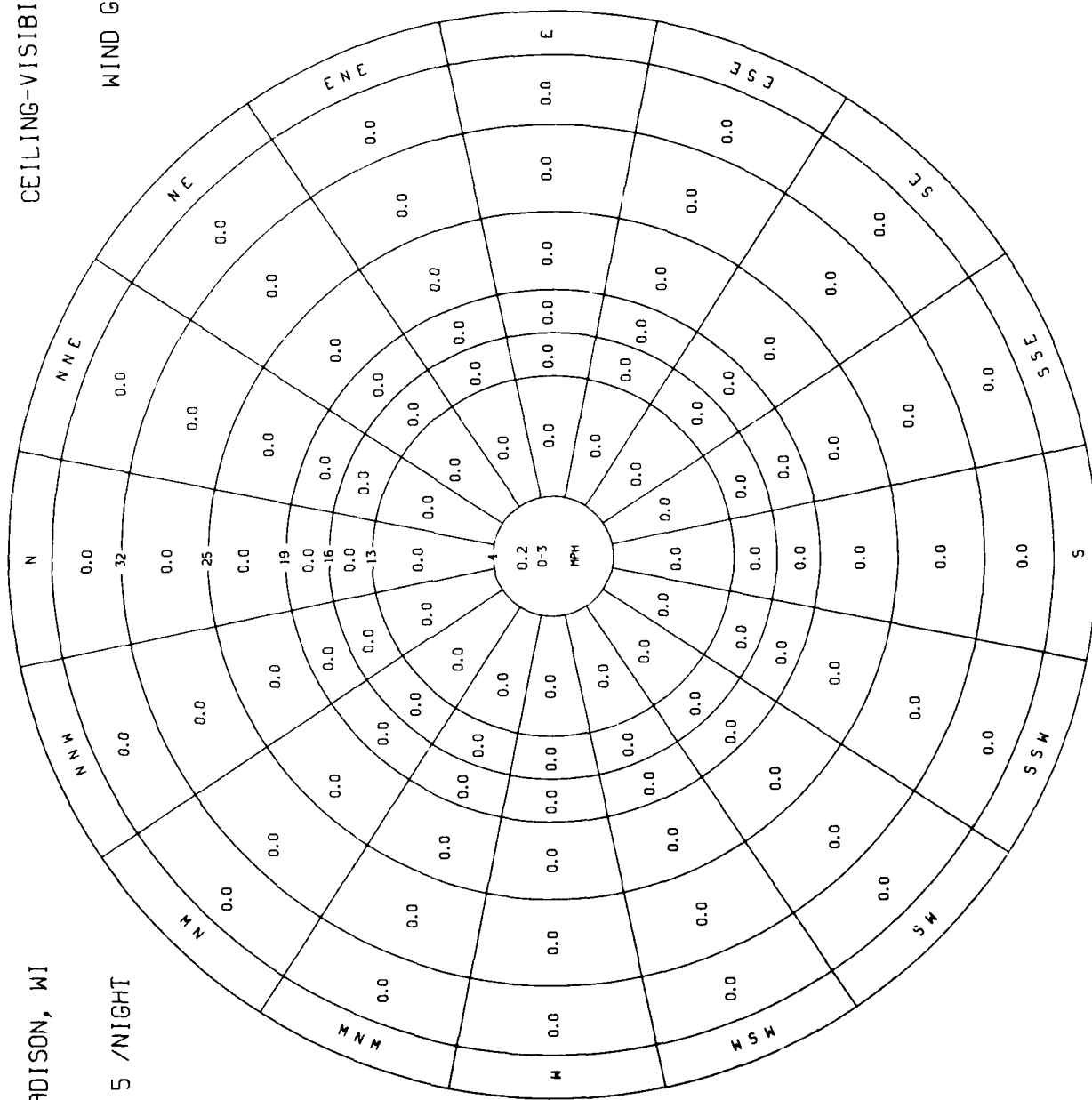
D I R	SPEED GROUPS (MPH)													AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	2.3	.0	2.3	.0	1.8	.0	.0	.0	1.4	.0	.0	.0	.0	.0 7.7
NNE	.0	.9	.0	3.2	.0	.5	.0	.0	.0	.5	.0	.5	.0	.0	.0 5.5
NE	.0	.5	.0	4.5	.0	.0	.0	.5	.0	.5	.0	.0	.0	.9	.0 6.8
ENE	.0	.5	.0	4.1	.0	.5	.0	.5	.0	.9	.0	.9	.0	.0	.0 7.3
E	.0	1.4	.0	10.0	.0	.5	.0	1.4	.0	.0	.0	.0	.0	.0	.1 13.2
ESE	.0	.5	.0	5.5	.0	1.4	.0	.5	.0	.0	.0	.0	.0	.0	.0 7.7
SE	.0	1.4	.0	4.5	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0 6.8
SSE	.0	1.4	.0	2.7	.0	.5	.0	.5	.0	.0	.0	.5	.0	.0	.0 5.5
S	.0	1.4	.0	8.2	.0	1.4	.0	.5	.0	.0	.0	.0	.0	.0	.1 11.4
SSW	.0	.9	.0	3.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 4.5
SW	.0	.5	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.4
WSW	.0	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.3
W	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0 1.8
WNW	.0	.5	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0 1.8
NW	.0	.5	.0	1.8	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.7
NNW	.0	.5	.0	1.8	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0 2.7
CALM	.0	10.9													.0 10.9
TOTAL	.1	23.6	.3	57.3	.0	6.8	.0	4.5	.0	3.6	.0	2.7	.0	1.4	.5 100
															8.6

CEILING-VISIBILITY

WIND GRAPH

MSN MADISON, WI

CLASS 5 /NIGHT



ANNUAL

PERIOD: 1948-1978

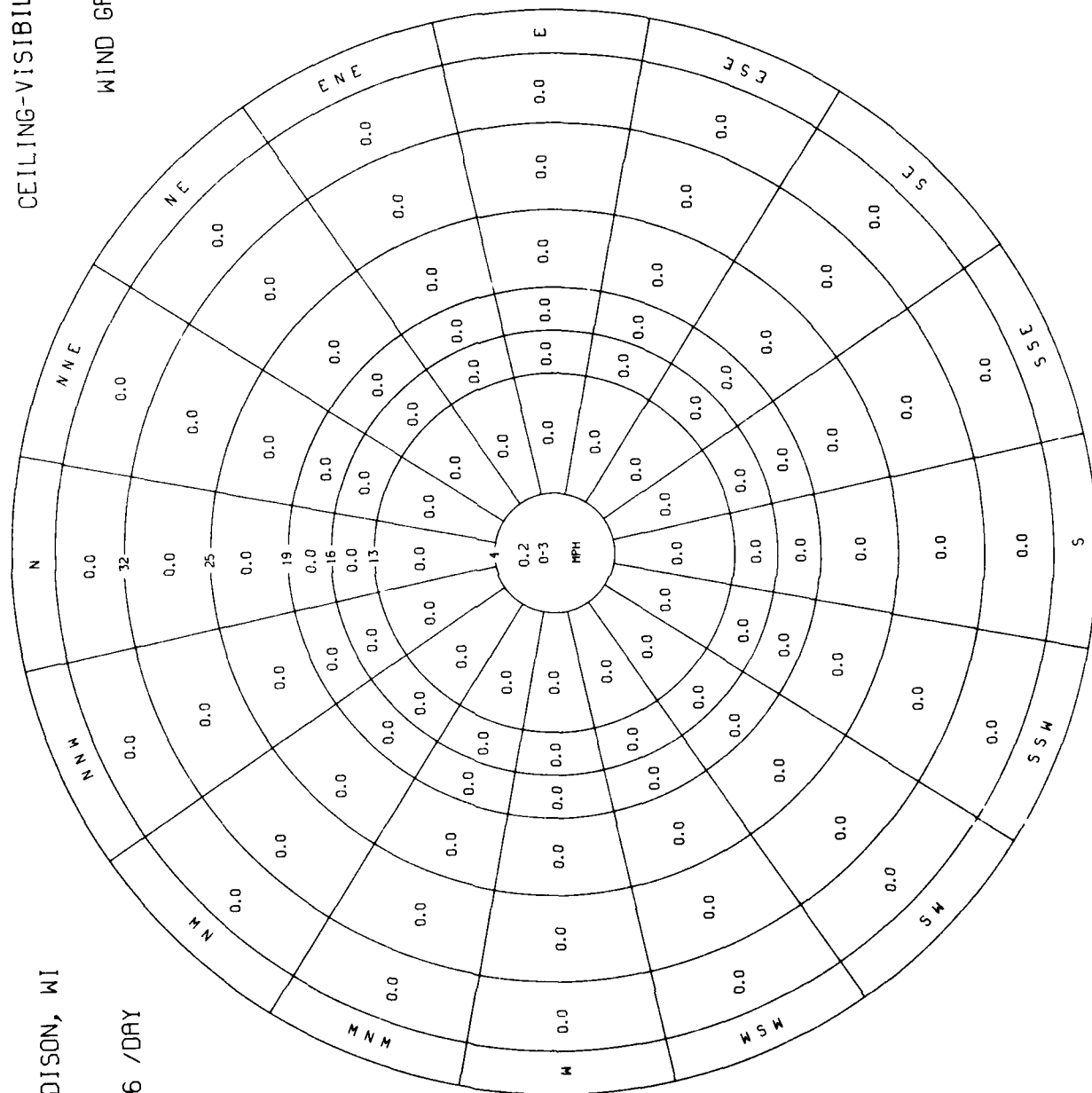
CLASS 5 / NIGHT

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92	92	92
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94	94	94
95	95	95
96	96	96
97	97	97
98	98	98
99	99	99
100	100	100

D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	1.7	.0	6.9	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	9.1	7.1
NNE	.0	.4	.0	2.2	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	3.0	11.1
NE	.0	.4	.0	6.5	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	7.8	8.3
ENE	.0	1.7	.0	5.2	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.3	7.1
E	.0	1.3	.0	3.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.2	6.1
ESE	.0	1.3	.0	5.2	.0	1.3	.0	.0	.0	.4	.0	.0	.0	.0	.0	8.2	8.8
SE	.0	1.7	.0	4.3	.0	.4	.0	1.3	.0	.9	.0	.0	.0	.0	.0	8.6	9.5
SSE	.0	.4	.0	3.9	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	5.2	9.0
S	.0	1.3	.0	6.0	.0	.9	.0	.0	.0	.4	.0	.0	.0	.0	.0	8.6	8.9
SSW	.0	.9	.0	2.6	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	3.9	7.3
SW	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	6.8
WSW	.0	.9	.0	.9	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	2.2	6.6
W	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	6.3
WNW	.0	.9	.0	.4	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	2.2	8.0
NW	.0	1.3	.0	2.2	.0	.0	.0	.4	.0	.0	.4	.0	.4	.0	.0	4.3	8.1
NNW	.0	.9	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.4	5.5
CALM	.1	17.7													.1	17.7	
TOTAL	2	32.8	3	56.0	0	4.3	0	3.9	0	1.7	0	1.3	0	.0	5	100	6.6

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MSN MADISON, WI

PERIOD: 1948-1978

CLASS 6 / DAY

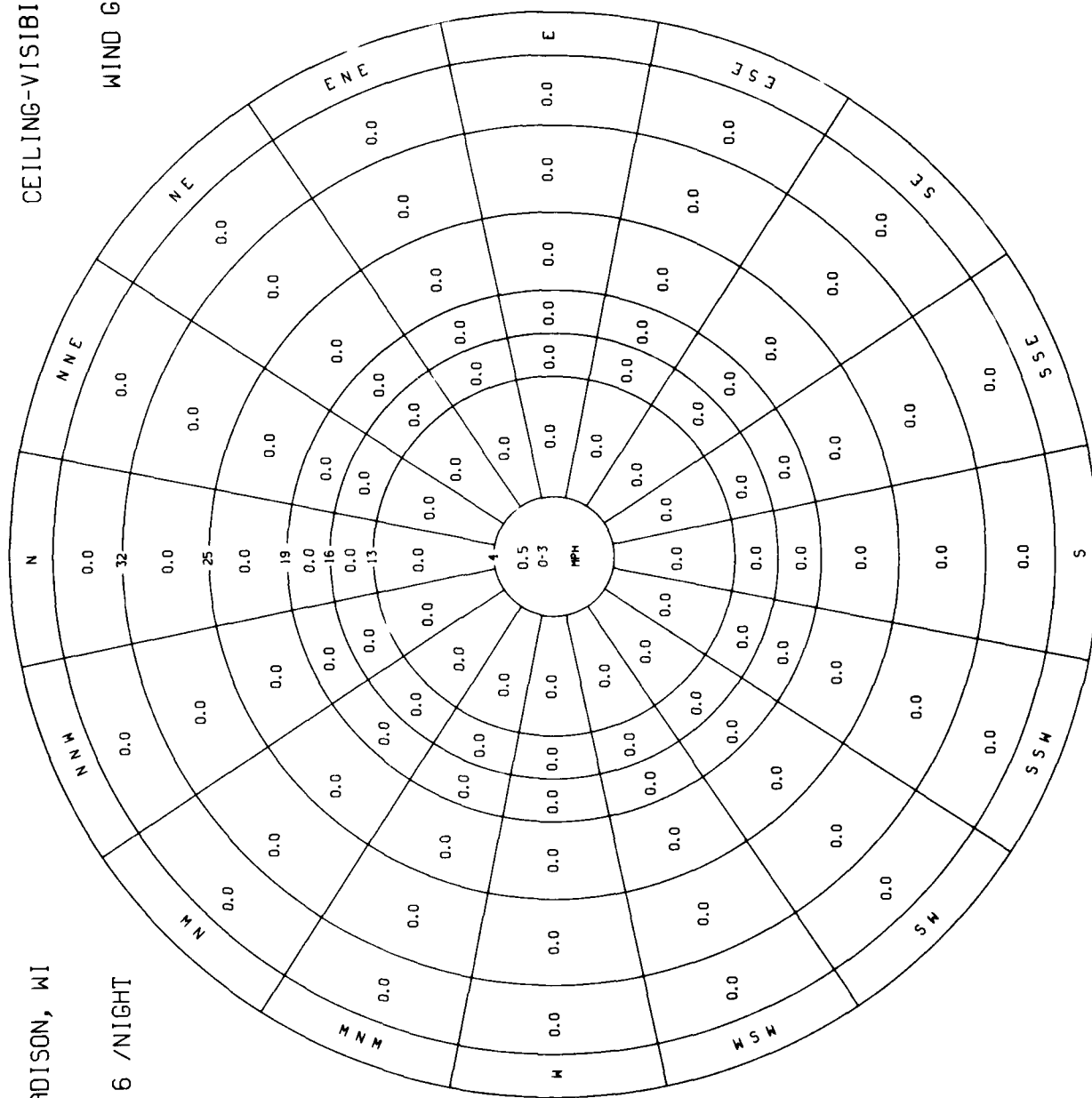
STATION NUMBER: 14837

NO. OBS.: 235

O I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	1.3	.0	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0 3.8
NNE	.0	1.7	.0	1.3	.0	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0 3.8
NENE	.0	3.0	.0	3.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0 6.8
EENE	.0	.9	.0	2.6	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0 3.8
E	.0	.4	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.0
ESE	.0	2.1	.0	6.0	.0	.9	.0	.4	.0	.0	.0	.0	.0	.0	.0 9.4
SE	.0	.0	.0	8.1	.0	.9	.0	.0	.0	.4	.0	.0	.0	.0	.0 9.4
SSE	.0	.9	.0	5.1	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0 6.8
S	.0	3.4	.0	8.1	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.1 12.3
SSW	.0	.0	.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.0
SW	.0	.0	.0	1.7	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0 2.1
WSW	.0	.4	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.7
W	.0	1.3	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.7
WNW	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .4
NW	.0	1.7	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0 5.1
NNW	.0	.9	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0 3.8
CALM	.1	23.0													.1 23.0
TOTAL	.2	40.9	.2	50.6	.0	3.0	.0	1.7	.0	1.7	.0	.9	.0	1.3	.5 100
															5.9

MSN MADISON, WI

CLASS 6 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MSN MADISON, WI

PERIOD: 1948-1978

CLASS 6 / NIGHT

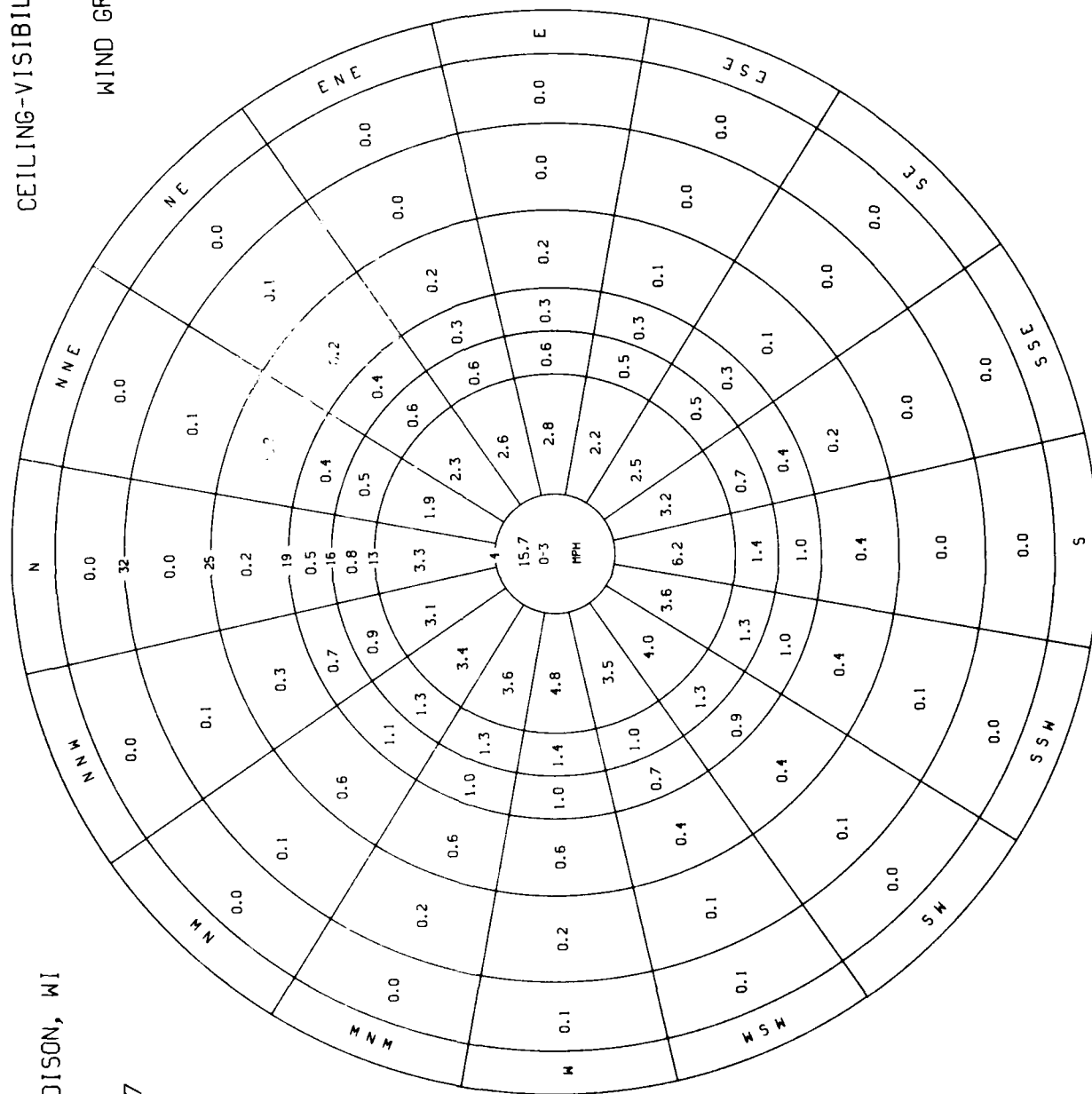
STATION NUMBER: 14837

NO. OBS.: 370

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	1.9	.0	4.1	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.1 6.8
NNE	.0	1.9	.0	1.4	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.5
NE	.0	3.2	.0	2.4	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.1 5.9
ENE	.0	1.9	.0	3.2	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.0 5.7
E	.0	3.0	.0	3.8	.0	.5	.0	.3	.0	.0	.0	.0	.0	.0	.1 7.6
ESE	.0	1.1	.0	2.4	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.8
SE	.0	1.6	.0	4.6	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.1 6.8
SSE	.0	1.4	.0	5.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1 7.0
S	.0	1.9	.0	5.7	.0	.5	.0	.3	.0	.3	.0	.0	.0	.0	.1 8.6
SSW	.0	.8	.0	2.2	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.2
SW	.0	.8	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.2
WSW	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .5
W	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .5
WNW	.0	.3	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.6
NW	.0	1.6	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.0
NNW	.0	1.9	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 4.1
CALM	.3	29.2													.3 29.2
TOTAL	.5	53.2	.4	41.9	.0	3.2	.0	1.1	.0	.5	.0	.0	.0	.0	.9 100

CEILING-VISIBILITY

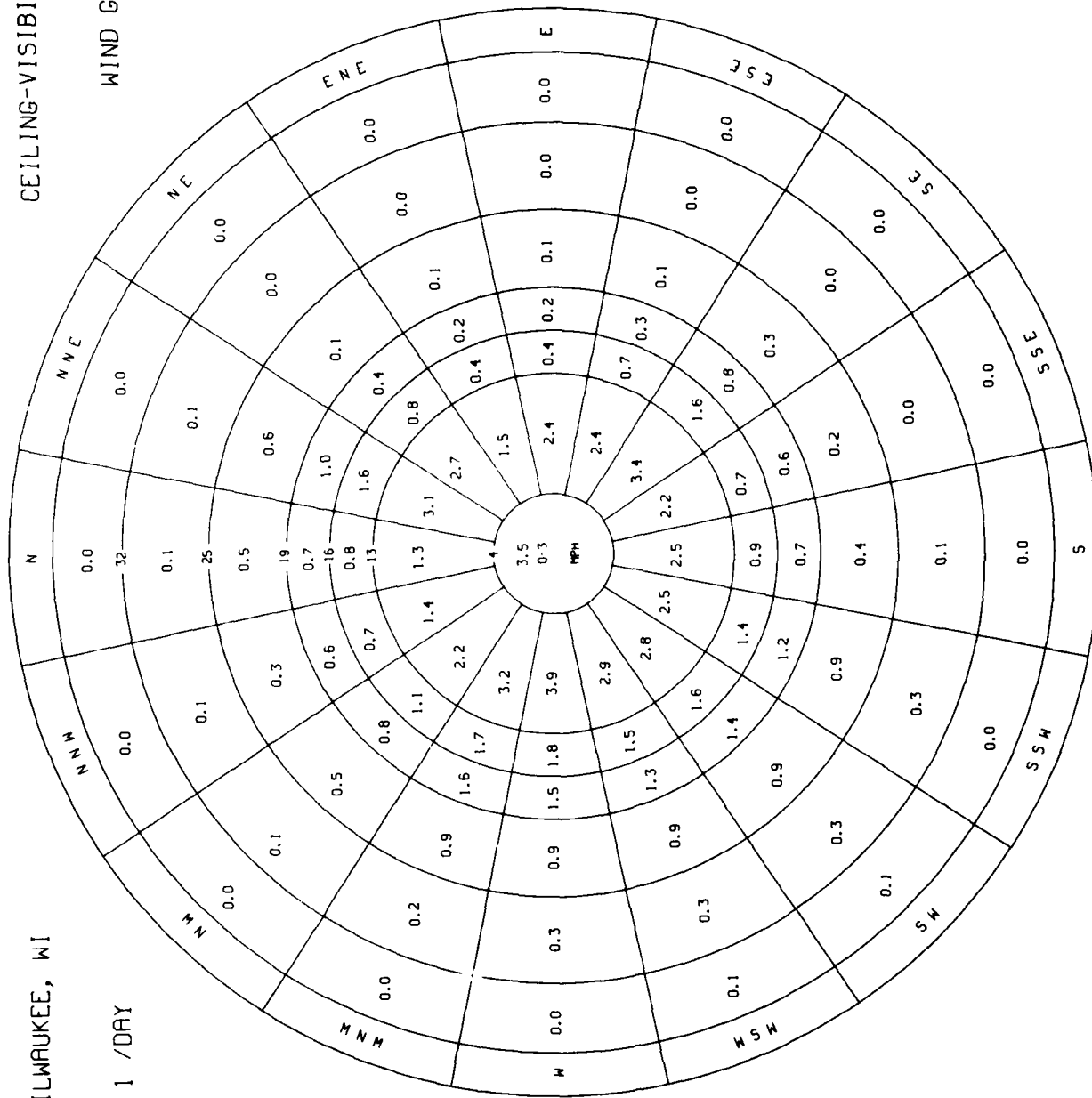
WIND GRAPH



CEILING-VISIBILITY WIND GRAPH

MKE MILWAUKEE, WI

CLASS 1 / DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: MKE MILWAUKEE, WI

CLASS 1 / DAY

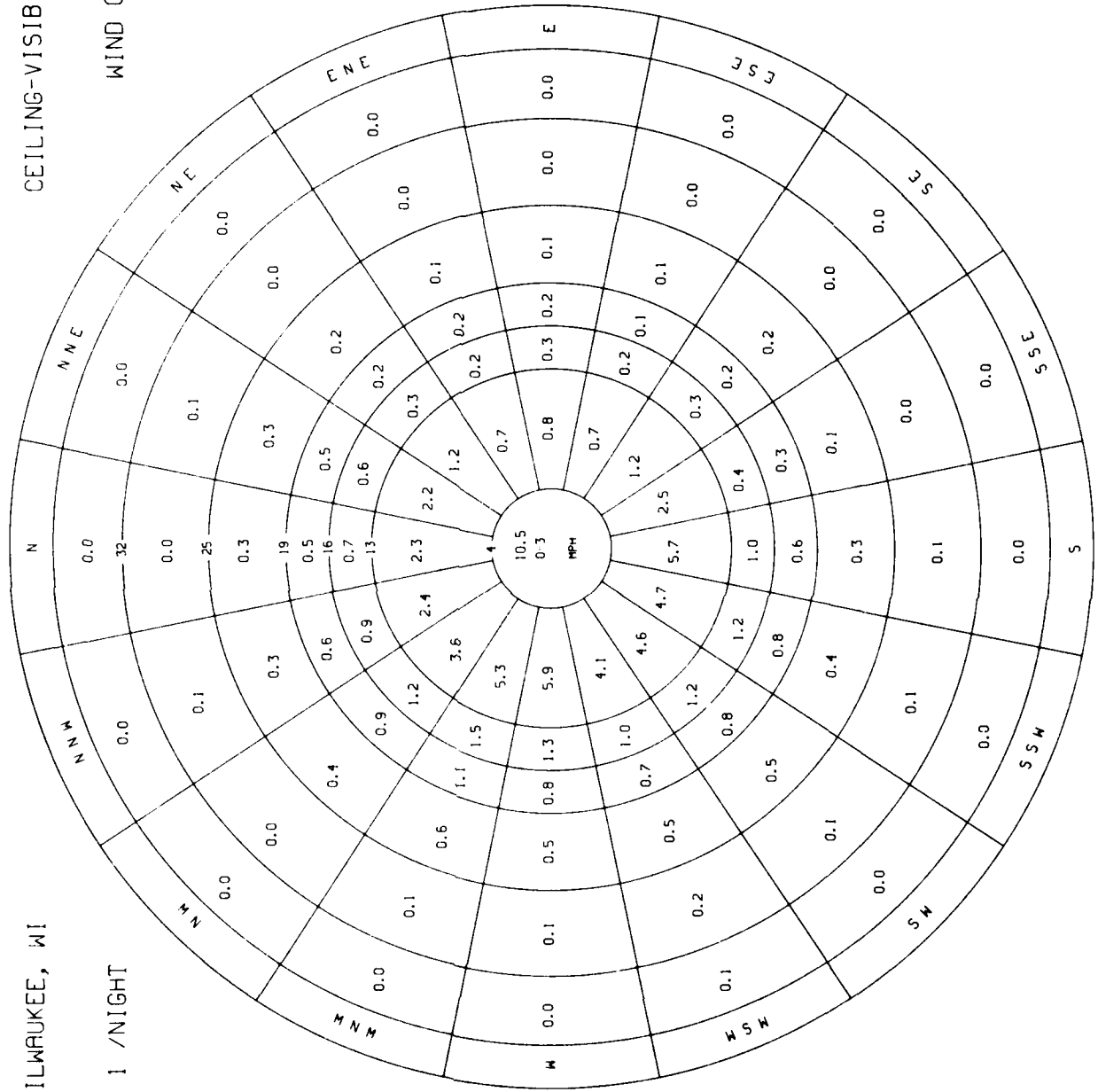
NO. OBS.: 41085

STATION NUMBER: 14839

D I R	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.1	.2	1.3	1.5	.8	.9	.7	.8	.5	.6	.1	.1	.0	.0	3.5	4.1	13.8
NNE	.1	.1	3.1	3.7	1.6	1.9	1.0	1.2	.6	.7	.1	.2	.0	.0	6.7	7.8	13.0
NNE	.2	.2	2.7	3.2	.8	.9	.4	.5	.1	.2	.0	.0	.0	.0	4.3	5.0	10.9
ENE	.1	.1	1.5	1.8	.4	.4	.2	.2	.1	.1	.0	.0	.0	.0	2.3	2.7	10.6
E	.2	.2	2.4	2.8	.4	.5	.2	.2	.1	.1	.0	.0	.0	.0	3.2	3.8	9.9
ESE	.1	.2	2.4	2.8	.7	.8	.3	.3	.1	.1	.0	.0	.0	.0	3.6	4.2	10.7
SE	.2	.3	3.4	4.0	1.6	1.9	.8	.9	.3	.3	.0	.0	.0	.0	6.3	7.4	11.7
SSE	.2	.3	2.2	2.6	.7	.9	.6	.7	.2	.3	.0	.1	.0	.0	4.0	4.7	11.6
S	.3	.3	2.5	2.9	.9	1.1	.7	.9	.4	.5	.1	.1	.0	.0	5.0	5.9	12.2
SSW	.2	.2	2.5	2.9	1.4	1.7	1.2	1.4	.9	1.0	.3	.3	.0	.0	6.5	7.6	14.0
SW	.2	.3	2.8	3.3	1.6	1.8	1.4	1.7	.9	1.1	.3	.4	.1	.1	7.4	8.6	14.2
WSW	.2	.2	2.9	3.3	1.5	1.7	1.3	1.5	.9	1.1	.3	.4	.1	.2	7.2	8.4	14.2
W	.3	.3	3.9	4.6	1.8	2.1	1.5	1.8	.9	1.0	.3	.3	.0	.1	8.7	10.2	13.1
WNW	.1	.2	3.2	3.7	1.7	2.0	1.6	1.9	.9	1.1	.2	.3	.0	.0	7.9	9.2	13.8
NW	.2	.2	2.2	2.6	1.1	1.3	.8	1.0	.5	.6	.1	.1	.0	.0	4.9	5.7	12.9
NNW	.1	.1	1.4	1.6	.7	.9	.6	.7	.3	.3	.1	.1	.0	.0	3.2	3.7	13.0
CALM	.7	.8													.7	.8	
TOTAL	3.5	4.1	40.4	47.4	17.7	20.8	13.4	15.7	7.8	9.1	2.0	2.4	.4	.5	85.2	100	12.7

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MKE MILWAUKEE, WI

PERIOD: 1948-1978

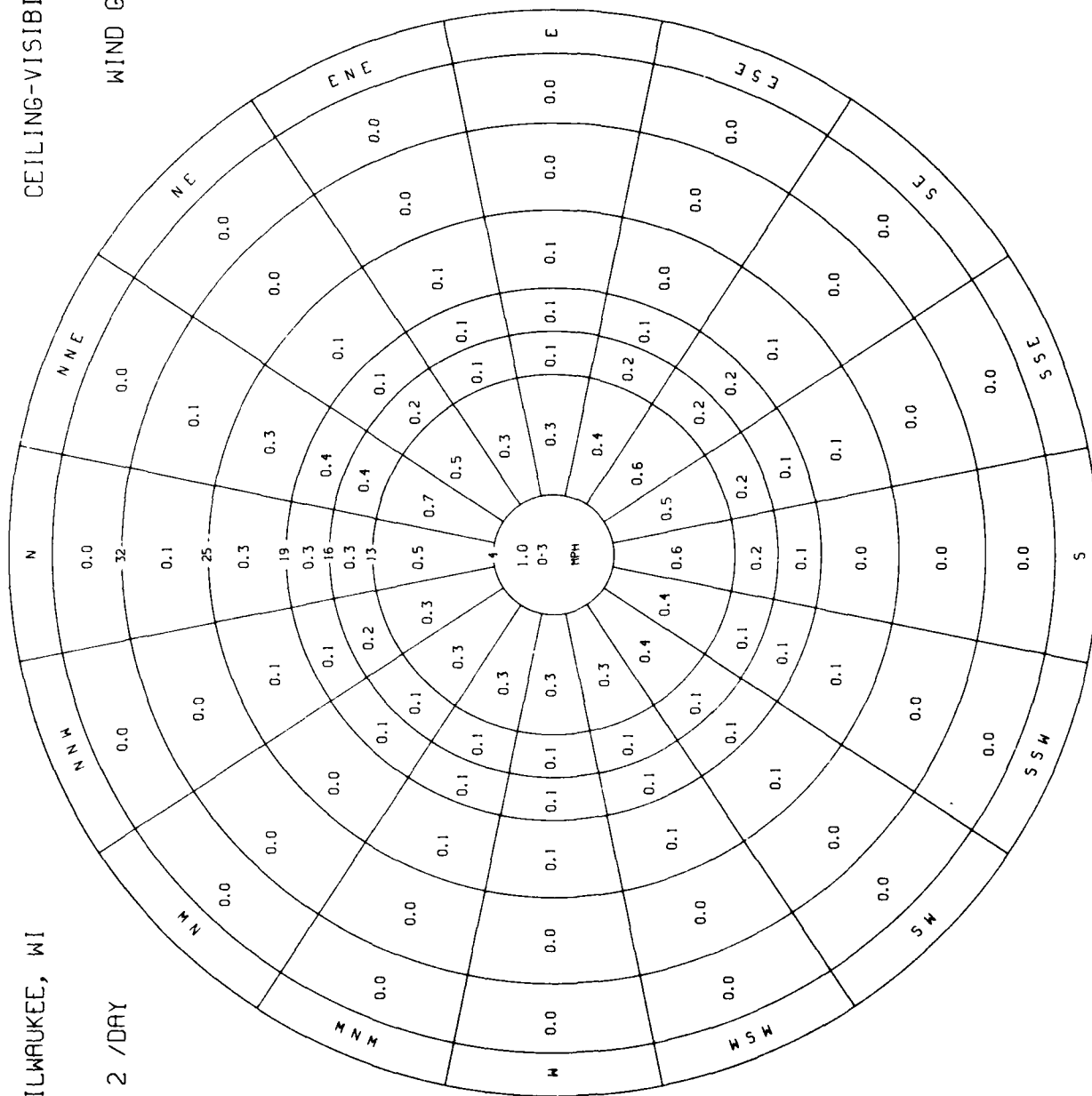
CLASS 1 / NIGHT

STATION NUMBER: 14839

NO. OBS.: 36027

D I R	SPEED GROUPS (MPH)															AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		D
N	.4	.4	2.3	2.7	.7	.8	.5	.6	.3	.3	.0	.0	.0	.0	4.1	4.8	10.7
NNE	.3	.4	2.2	2.5	.6	.7	.5	.6	.3	.3	.1	.1	.0	.0	4.0	4.7	11.0
NE	.3	.3	1.2	1.4	.3	.3	.2	.3	.2	.2	.0	.0	.0	.0	2.2	2.6	10.5
ENE	.1	.1	.7	.8	.2	.2	.2	.2	.1	.1	.0	.0	.0	.0	1.2	1.4	11.3
E	.3	.3	.8	1.0	.3	.3	.2	.2	.1	.1	.0	.0	.0	.0	1.7	2.0	9.9
ESE	.2	.3	.7	.8	.2	.3	.1	.2	.1	.1	.0	.0	.0	.0	1.4	1.6	10.0
SE	.4	.5	1.2	1.4	.3	.4	.2	.2	.2	.2	.0	.0	.0	.0	2.3	2.7	10.0
SSE	.7	.8	2.5	2.9	.4	.5	.3	.3	.1	.2	.0	.0	.0	.0	4.0	4.7	8.6
S	1.1	1.3	5.7	6.7	1.0	1.2	.6	.7	.3	.4	.1	.1	.0	.0	8.7	10.3	9.2
SSW	.8	.9	4.7	5.5	1.2	1.4	.8	.9	.4	.5	.1	.1	.0	.0	8.1	9.5	10.5
SW	.8	.9	4.6	5.4	1.2	1.4	.8	1.0	.5	.6	.1	.2	.0	.1	8.1	9.5	10.8
WSW	.8	.9	4.1	4.8	1.0	1.1	.7	.8	.5	.5	.2	.2	.1	.1	7.2	8.4	10.8
W	.9	1.0	5.9	6.9	1.3	1.5	.8	1.0	.5	.6	.1	.2	.0	.0	9.6	11.3	10.3
WNW	.5	.5	5.3	6.3	1.5	1.8	1.1	1.3	.6	.7	.1	.1	.0	.0	9.1	10.8	11.2
NW	.4	.4	3.6	4.2	1.2	1.4	.9	1.0	.4	.4	.0	.1	.0	.0	6.4	7.6	11.4
NNW	.2	.3	2.4	2.8	.9	1.0	.6	.7	.3	.4	.1	.1	.0	.0	4.5	5.3	11.7
CALM	2.4	2.8													2.4	2.8	
TOTAL	10.5	12.3	47.7	56.1	12.2	14.4	8.5	10.0	4.8	5.7	1.1	1.2	.2	.3	85.0	100	10.2

CEILING-VISIBILITY
WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MKE MILWAUKEE, WI

PERIOD: 1948-1978

CLASS 2 / DAY

STATION NUMBER: 14839

NO. OBS.: 7111

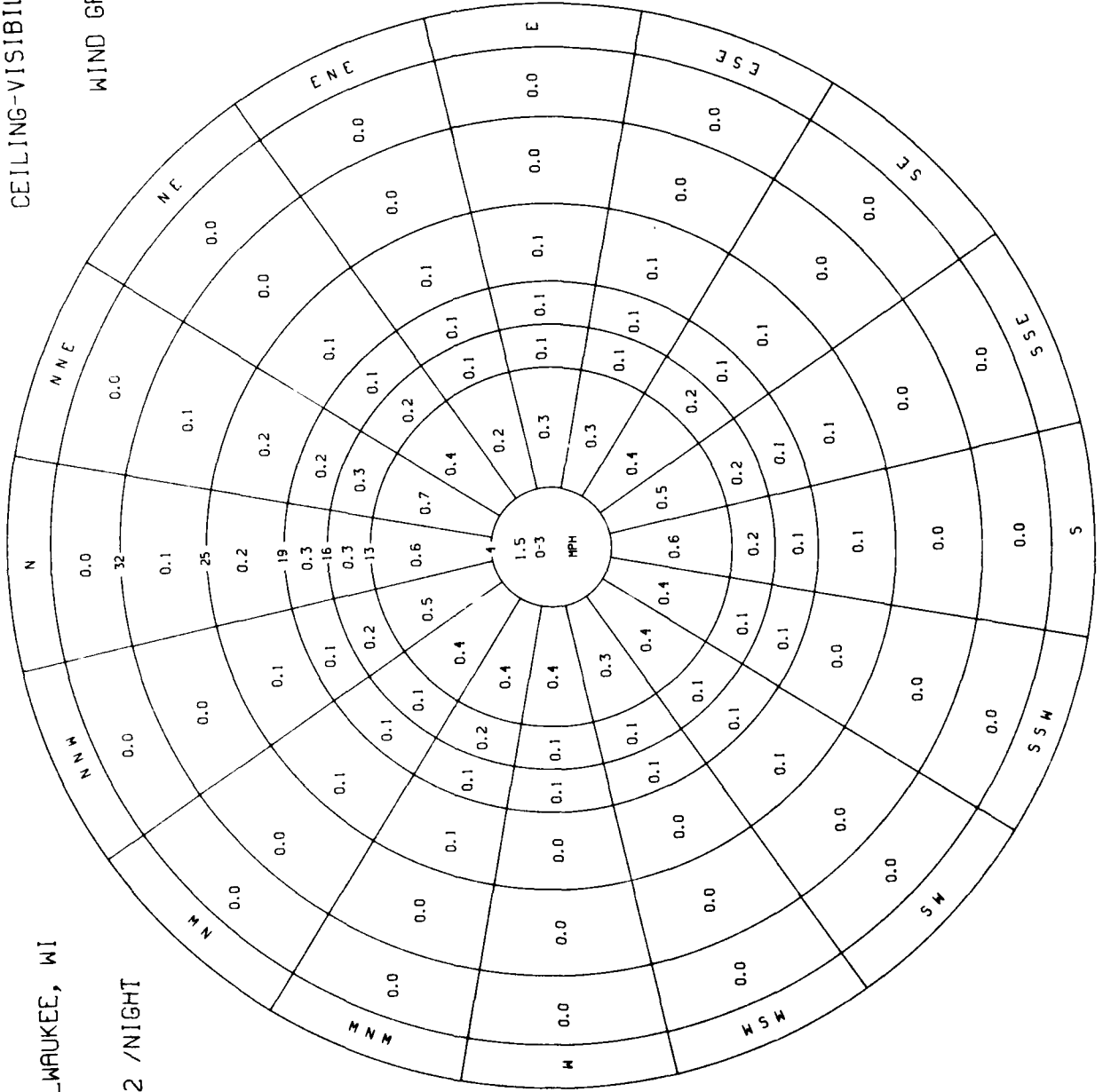
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.0	.3	.5	3.6	.3	2.0	.3	2.2	.3	1.8	.1	.8	.0	.1	1.6	10.8	15.1
NNE	.1	.4	.7	4.9	.4	2.5	.4	2.6	.3	1.9	.1	.6	.0	.1	1.9	13.1	14.2
NE	.0	.3	.5	3.3	.2	1.2	.1	.9	.1	.7	.0	.2	.0	.0	1.0	6.7	12.5
ENE	.0	.2	.3	2.0	.1	.5	.1	.5	.1	.8	.0	.3	.0	.0	.6	4.4	13.9
E	.0	.3	.3	2.2	.1	.7	.1	.7	.1	.5	.0	.2	.0	.0	.7	4.7	12.7
ESE	.0	.2	.4	2.9	.2	1.3	.1	.8	.0	.3	.0	.1	.0	.0	.8	5.6	12.1
SE	.1	.5	.6	3.8	.2	1.6	.2	1.2	.1	.6	.0	.2	.0	.0	1.2	7.9	12.1
SSE	.1	.4	.5	3.5	.2	1.3	.1	1.0	.1	.5	.0	.1	.0	.0	1.0	6.8	11.8
S	.1	.4	.6	4.0	.2	1.2	.1	.8	.0	.3	.0	.2	.0	.0	1.0	7.0	11.2
SSW	.0	.3	.4	2.9	.1	.8	.1	.6	.1	.4	.0	.1	.0	.0	.7	5.1	11.4
SW	.0	.3	.4	2.6	.1	.8	.1	.6	.1	.4	.0	.2	.0	.0	.7	4.9	11.9
WSW	.0	.3	.3	2.0	.1	.6	.1	.6	.1	.5	.0	.2	.0	.0	.6	4.2	12.7
W	.0	.3	.3	2.2	.1	.7	.1	.6	.1	.4	.0	.1	.0	.0	.6	4.3	11.6
WNW	.0	.3	.3	2.2	.1	.7	.1	.5	.1	.4	.0	.1	.0	.0	.6	4.1	11.8
NW	.1	.4	.3	2.1	.1	.7	.1	.7	.0	.3	.0	.1	.0	.0	.6	4.2	11.6
NNW	.0	.2	.3	2.1	.2	1.2	.1	.9	.1	.6	.0	.1	.0	.0	.8	5.1	13.0
CALM	.2	1.3													.2	1.3	
TOTAL	1.0	6.5	6.8	46.3	2.6	17.8	2.2	15.0	1.5	10.2	.5	3.6	.1	.5	14.8	100	12.6

CEILING-VISIBILITY

WIND GRAPH

MKE MILWAUKEE, WI

CLASS 2 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: MKE MILWAUKEE, WI

CLASS 2 / NIGHT

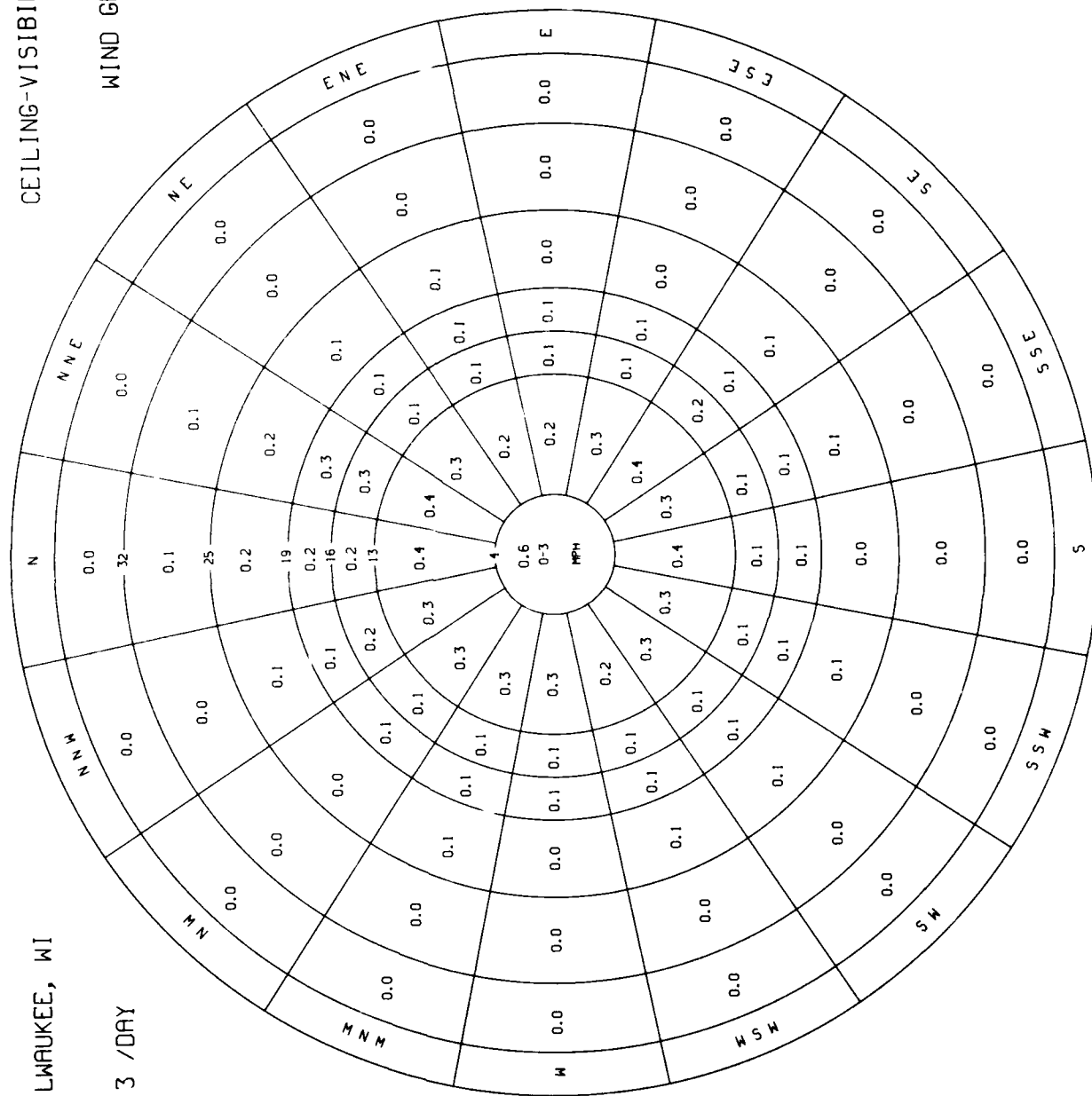
NO. OBS.: 6357

STATION NUMBER: 14839

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.1	.5	.6	3.9	.3	2.0	.3	1.9	.2	1.5	.1	.5	.0	.2	1.6 10.6
NNE	.1	.6	.7	5.0	.3	2.0	.2	1.5	.2	1.5	.1	.8	.0	.1	1.7 11.5
NNE	.1	.5	.4	2.7	.2	1.0	.1	1.0	.1	.8	.0	.3	.0	.0	.9 6.3
ENE	.0	.3	.2	1.4	.1	.8	.1	.6	.1	.5	.0	.1	.0	.0	.5 3.7
E	.0	.3	.3	2.0	.1	.9	.1	.9	.1	.6	.0	.2	.0	.0	.7 4.9
ESE	.0	.3	.3	1.9	.1	.8	.1	.6	.1	.5	.0	.2	.0	.0	.6 4.3
SE	.1	.6	.4	2.8	.2	1.1	.1	.8	.1	.6	.0	.2	.0	.0	.9 6.0
SSE	.1	1.0	.5	3.1	.2	1.0	.1	.7	.1	.5	.0	.0	.0	.0	.9 6.3
S	.1	.7	.6	4.3	.2	1.0	.1	.7	.1	.5	.0	.1	.0	.0	1.1 7.3
SSW	.1	.4	.4	2.8	.1	.7	.1	.5	.0	.2	.0	.1	.0	.1	.7 4.8
SW	.1	.7	.4	2.9	.1	.9	.1	.8	.1	.4	.0	.1	.0	.1	.9 5.8
WSW	.1	.4	.3	2.2	.1	.8	.1	.4	.0	.3	.0	.2	.0	.0	.6 4.3
W	.1	.4	.4	2.8	.1	.9	.1	.7	.0	.3	.0	.1	.0	.0	.8 5.4
WNW	.1	.4	.4	2.5	.2	1.0	.1	.7	.1	.4	.0	.1	.0	.0	.8 5.1
NW	.1	.5	.4	2.7	.1	.9	.1	.6	.1	.4	.0	.1	.0	.0	.8 5.0
NNW	.1	.6	.5	3.3	.2	1.4	.1	.9	.1	.6	.0	.2	.0	.0	1.0 6.9
CALM	.3	1.9													.3 1.9
TOTAL	1.5	9.9	6.9	46.3	2.6	17.2	2.0	13.3	1.4	9.5	.5	3.2	.1	.7	15.0 100

MKE MILWAUKEE, WI

CLASS 3 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

PERIOD: 1948-1978

STATION NAME: MKE MILWAUKEE, WI

CLASS 3 / DAY

NO. OBS.: 5310

STATION NUMBER: 14839

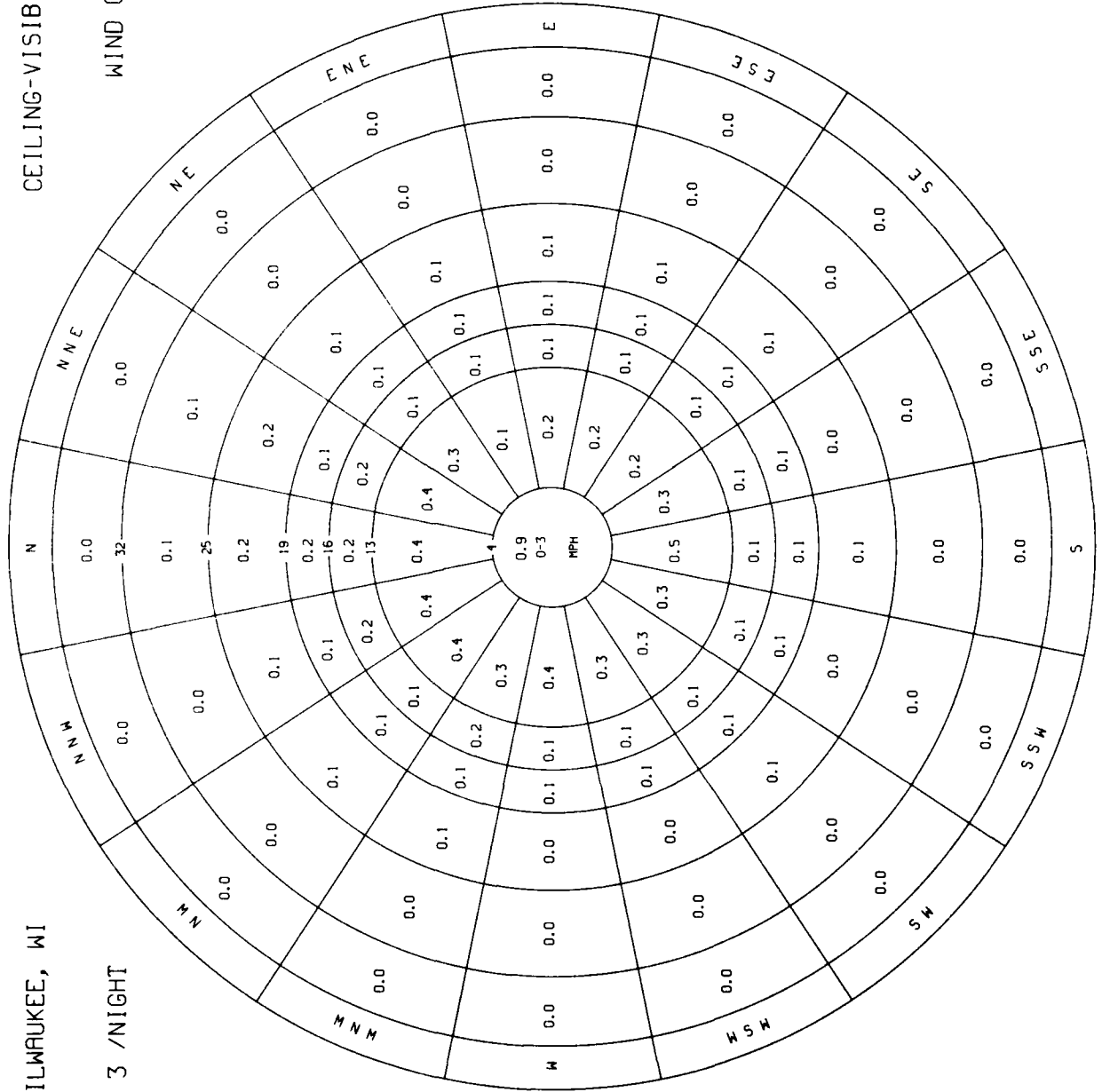
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED	
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D
N	.0	.2	.4	3.6	.2	2.0	.2	2.2	.2	1.7	.1	.8	.0	.1	1.2	10.7
NNE	.0	.3	.4	4.1	.3	2.4	.3	2.4	.2	1.9	.1	.6	.0	.1	1.3	11.7
NNE	.0	.3	.3	2.7	.1	1.2	.1	1.0	.1	.7	.0	.1	.0	.0	.7	6.1
ENE	.0	.2	.2	1.9	.1	.5	.1	.5	.1	.9	.0	.2	.0	.0	.5	4.3
E	.0	.2	.2	2.0	.1	.6	.1	.9	.0	.5	.0	.2	.0	.0	.5	4.4
ESE	.0	.2	.3	2.6	.1	1.1	.1	.7	.0	.3	.0	.1	.0	.0	.5	4.9
SE	.0	.5	.4	3.2	.2	1.5	.1	1.0	.1	.5	.0	.2	.0	.0	.8	6.9
SSE	.0	.3	.3	3.1	.1	1.2	.1	.9	.1	.5	.0	.1	.0	.0	.7	6.2
S	.0	.4	.4	3.9	.1	1.3	.1	.9	.0	.4	.0	.2	.0	.0	.8	7.1
SSW	.0	.3	.3	3.1	.1	1.0	.1	.7	.1	.5	.0	.1	.0	.0	.6	5.7
SW	.0	.3	.3	3.0	.1	1.0	.1	.7	.1	.5	.0	.2	.0	.0	.6	5.6
WSW	.0	.3	.2	2.2	.1	.6	.1	.7	.1	.6	.0	.3	.0	.1	.5	4.8
W	.0	.2	.3	2.6	.1	.9	.1	.8	.0	.4	.0	.2	.0	.0	.6	5.1
WNW	.0	.4	.3	2.5	.1	.9	.1	.5	.1	.5	.0	.1	.0	.0	.5	5.0
NW	.0	.3	.3	2.3	.1	.9	.1	.8	.0	.3	.0	.1	.0	.0	.5	4.7
NNW	.0	.2	.3	2.4	.2	1.5	.1	1.1	.1	.7	.0	.2	.0	.0	.7	6.0
CALM	.1	1.0													.1	1.0
TOTAL	.6	5.5	5.0	45.2	2.0	18.6	1.7	15.9	1.2	10.8	.4	3.6	.0	.4	11.0	100
																12.8

CEILING-VISIBILITY

WIND GRAPH

MKE MILWAUKEE, WI

CLASS 3 /NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MKE MILWAUKEE, WI

PERIOD: 1948-1978

CLASS 3 / NIGHT

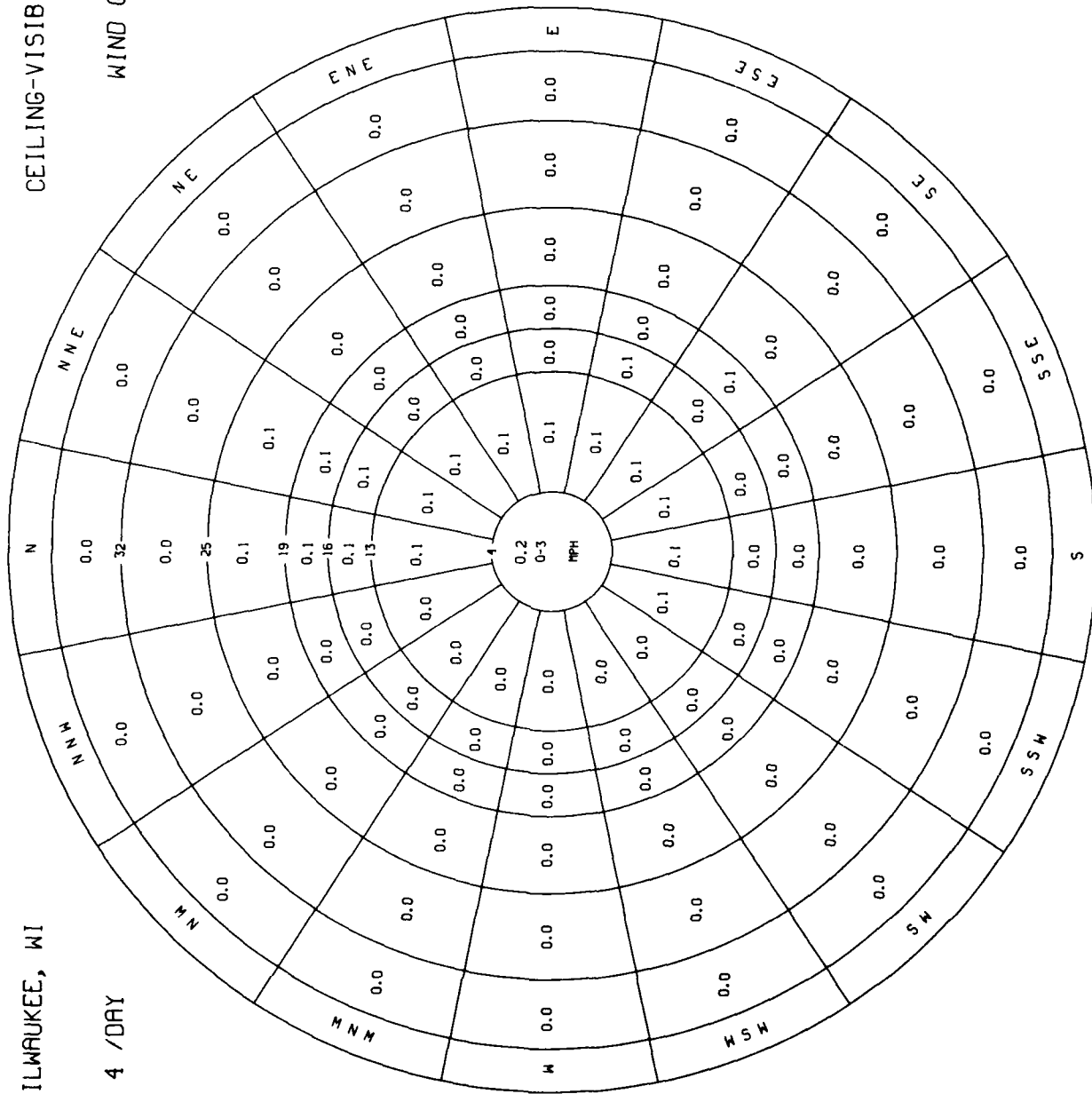
STATION NUMBER: 14839

NO. OBS.: 4695

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B			C
N	.0	.3	.4	3.6	.2	2.2	.2	2.1	.2	1.7	.1	.6	.0	.2	1.2	10.7	14.9
NNE	.0	.4	.4	3.3	.2	2.0	.1	1.3	.2	1.5	.1	.9	.0	.1	1.1	9.6	14.8
NE	.0	.4	.3	2.3	.1	1.1	.1	1.1	.1	.9	.0	.3	.0	.0	.7	6.1	13.7
ENE	.0	.2	.1	1.2	.1	.8	.1	.6	.1	.6	.0	.2	.0	.0	.4	3.5	14.2
E	.0	.2	.2	1.6	.1	.8	.1	1.0	.1	.6	.0	.1	.0	.0	.5	4.3	13.8
ESE	.0	.2	.2	1.4	.1	.7	.1	.6	.1	.5	.0	.2	.0	.0	.4	3.5	13.6
SE	.0	.4	.2	2.0	.1	1.0	.1	.6	.1	.5	.0	.1	.0	.0	.5	4.7	12.5
SSE	.1	.8	.3	2.6	.1	1.0	.1	.5	.0	.4	.0	.0	.0	.0	.6	5.4	10.6
S	.1	.7	.5	4.1	.1	1.1	.1	.7	.1	.5	.0	.1	.0	.0	.8	7.3	10.7
SSW	.0	.3	.3	2.9	.1	.9	.1	.6	.0	.2	.0	.1	.0	.1	.6	5.2	11.8
SW	.1	.5	.3	2.9	.1	1.1	.1	1.0	.1	.5	.0	.2	.0	.1	.7	6.3	12.3
WSW	.0	.3	.3	2.4	.1	1.0	.1	.6	.0	.4	.0	.2	.0	.0	.5	5.0	12.3
W	.0	.4	.4	3.3	.1	1.2	.1	.9	.0	.4	.0	.2	.0	.0	.7	6.5	11.7
WNW	.0	.3	.3	3.1	.2	1.4	.1	.8	.1	.5	.0	.1	.0	.0	.7	6.2	11.9
NW	.1	.5	.4	3.3	.1	1.2	.1	.7	.1	.5	.0	.1	.0	.0	.7	6.2	11.5
NNW	.1	.6	.4	3.7	.2	1.8	.1	1.2	.1	.7	.0	.2	.0	.0	.9	8.2	12.1
CALM	.1	1.3													.1	1.3	
TOTAL	.9	7.7	4.8	43.6	2.1	19.3	1.6	14.5	1.2	10.5	.4	3.7	.1	.7	11.1	100	12.6

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MKE MILWAUKEE, WI

PERIOD: 1948-1978

CLASS 4 / DAY

STATION NUMBER: 14839

NO. OBS.: 1207

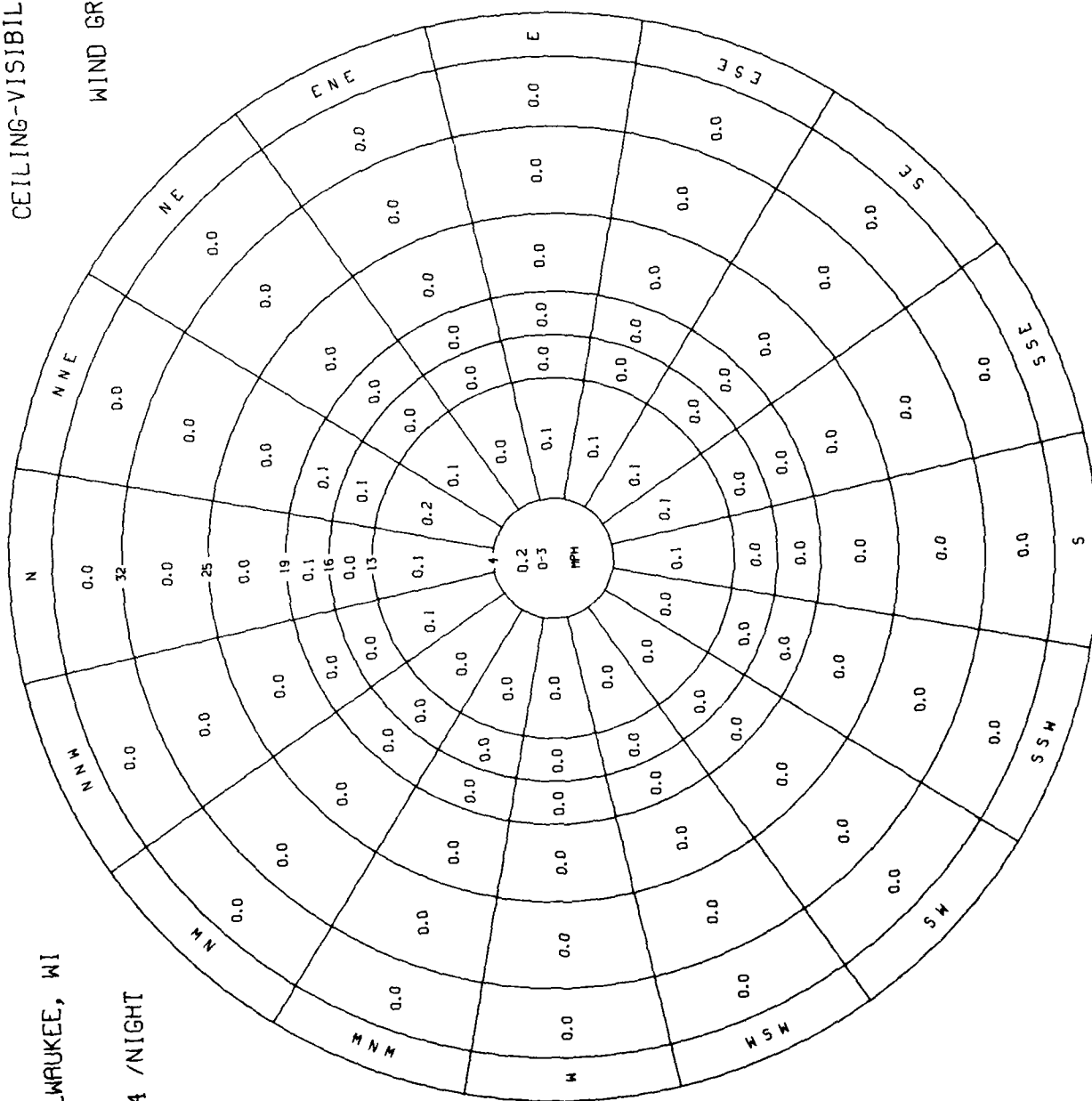
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED		
	0-3		4-12		13-15		16-18		19-24		25-31		32+			TOTAL	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B		C	D
N	.0	.6	.1	3.2	.1	2.3	.1	2.5	.1	2.4	.0	.9	.0	.2	.3	12.1	15.4
NNE	.0	.4	.1	5.7	.1	3.0	.1	4.1	.1	2.2	.0	.8	.0	.2	.4	16.5	14.9
NE	.0	.2	.1	4.2	.0	1.1	.0	.8	.0	1.2	.0	.5	.0	.0	.2	8.0	13.0
ENE	.0	.4	.1	2.2	.0	.9	.0	.7	.0	.5	.0	.5	.0	.0	.1	5.3	13.4
E	.0	.2	.1	2.8	.0	1.2	.0	.4	.0	.7	.0	.2	.0	.0	.1	5.6	12.6
ESE	.0	.2	.1	3.8	.1	2.2	.0	.9	.0	.5	.0	.3	.0	.2	.2	8.1	12.8
SE	.0	.6	.1	3.6	.0	1.5	.1	2.1	.0	1.0	.0	.3	.0	.0	.2	9.1	12.9
SSE	.0	.4	.1	4.1	.0	1.5	.0	1.2	.0	.7	.0	.2	.0	.0	.2	8.1	12.2
S	.0	.5	.1	4.7	.0	1.0	.0	.7	.0	.1	.0	.2	.0	.0	.2	7.1	10.5
SSW	.0	.2	.1	2.3	.0	.3	.0	.2	.0	.0	.0	.0	.0	.0	.1	3.1	9.7
SW	.0	.5	.0	1.6	.0	.2	.0	.2	.0	.0	.0	.1	.0	.0	.1	2.6	9.1
WSW	.0	.2	.0	1.6	.0	.5	.0	.2	.0	.2	.0	.1	.0	.0	.1	2.7	11.3
W	.0	.5	.0	1.2	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.1	2.2	8.0
WNW	.0	.2	.0	1.2	.0	.0	.0	.2	.0	.1	.0	.1	.0	.0	.0	1.8	10.7
NW	.0	.4	.0	1.4	.0	.2	.0	.7	.0	.2	.0	.2	.0	.0	.1	3.0	11.4
NNW	.0	.3	.0	1.7	.0	.5	.0	.2	.0	.4	.0	.1	.0	.0	.1	3.2	11.5
CALM	.0	1.4													.0	1.4	
TOTAL	.2	7.3	1.1	45.6	.4	16.5	.4	15.2	.3	10.4	.1	4.5	.0	.6	2.5	100	12.6

CEILING-VISIBILITY

WIND GRAPH

MKE MILWAUKEE, WI

CLASS 4 / NIGHT



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MKE MILWAUKEE, WI

PERIOD: 1948-1978

CLASS 4 / NIGHT

STATION NUMBER: 14839

NO. OBS.: 934

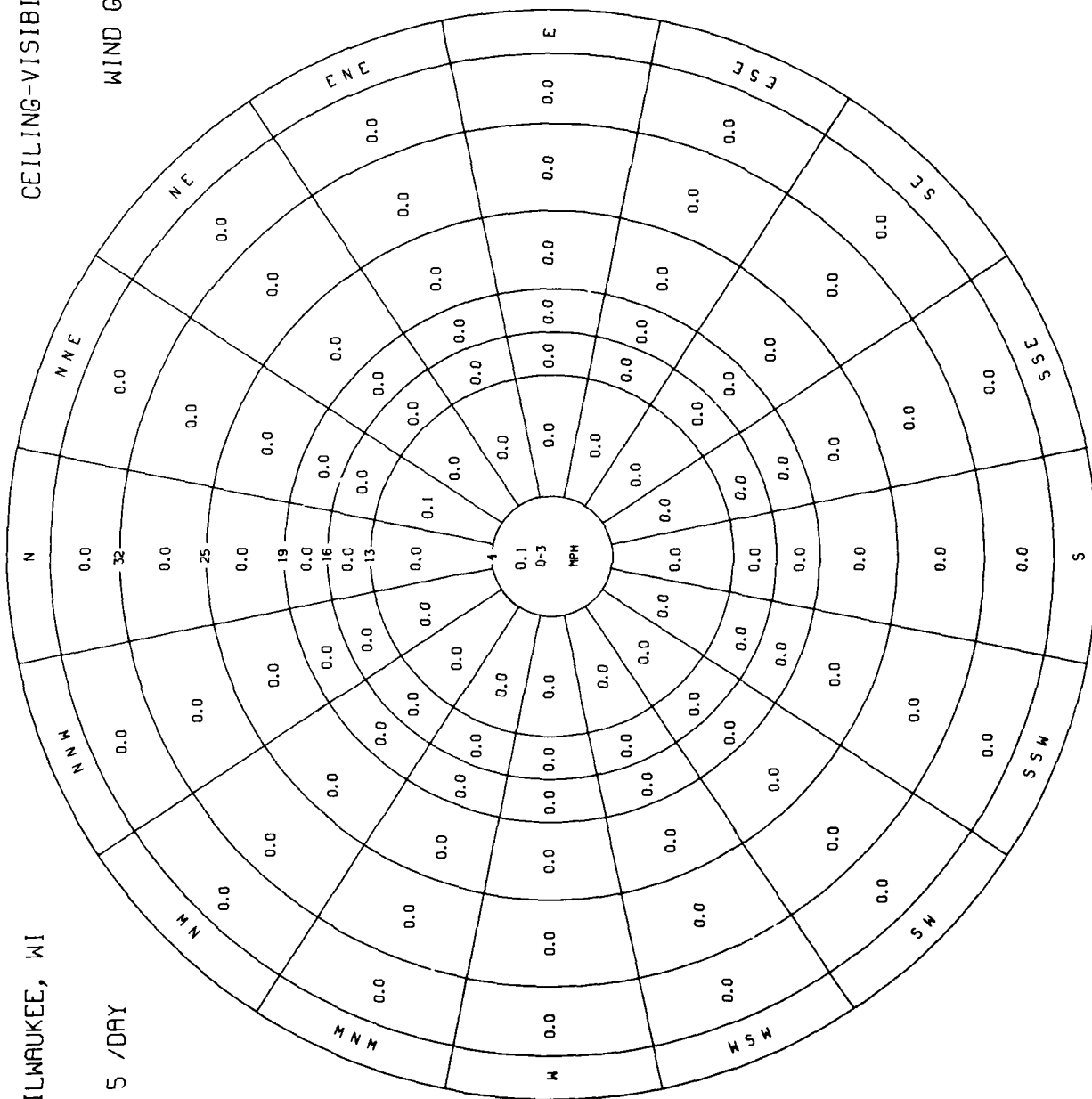
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.7	.1	4.5	.0	2.2	.1	2.4	.0	1.4	.0	.6	.0	.0	.3 11.9
NNE	.0	1.2	.2	9.5	.1	2.9	.1	3.1	.0	1.9	.0	.6	.0	.1	.4 19.4
NE	.0	.5	.1	4.1	.0	.6	.0	1.1	.0	.4	.0	.3	.0	.0	.2 7.1
ENE	.0	.4	.0	1.4	.0	.7	.0	1.4	.0	.5	.0	.0	.0	.0	.1 4.5
E	.0	.3	.1	3.0	.0	1.5	.0	1.0	.0	1.2	.0	.5	.0	.0	.2 7.5
ESE	.0	.3	.1	3.0	.0	1.4	.0	.7	.0	1.0	.0	.2	.0	.1	.1 6.7
SE	.0	.5	.1	4.2	.0	1.3	.0	1.3	.0	.9	.0	.2	.0	.0	.2 8.4
SSE	.0	.3	.1	4.2	.0	1.0	.0	1.6	.0	.7	.0	.0	.0	.0	.2 7.8
S	.0	.2	.1	3.7	.0	1.0	.0	.6	.0	.5	.0	.0	.0	.0	.1 6.1
SSW	.0	.5	.0	2.0	.0	.4	.0	.1	.0	.0	.0	.0	.0	.0	.1 3.1
SW	.0	.5	.0	2.0	.0	.3	.0	.1	.0	.0	.0	.0	.0	.0	.1 3.0
WSW	.0	.2	.0	2.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1 2.6
W	.0	.1	.0	1.5	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0 1.8
WNW	.0	.4	.0	1.0	.0	.0	.0	.5	.0	.2	.0	.1	.0	.0	.0 2.2
NW	.0	.2	.0	.9	.0	.2	.0	.2	.0	.1	.0	.1	.0	.0	.0 1.7
NNW	.0	.5	.1	2.7	.0	.2	.0	.4	.0	.2	.0	.0	.0	.1	.1 4.2
CALM	.0	2.0													.0 2.0
TOTAL	.2	9.2	1.1	49.9	.3	13.9	.3	14.8	.2	9.1	.1	2.8	.0	.3	2.2 100 11.7

CEILING-VISIBILITY

WIND GRAPH

MKE MILWAUKEE, WI

CLASS 5 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MKE MILWAUKEE, WI

PERIOD: 1948-1978

CLASS 5 / DAY

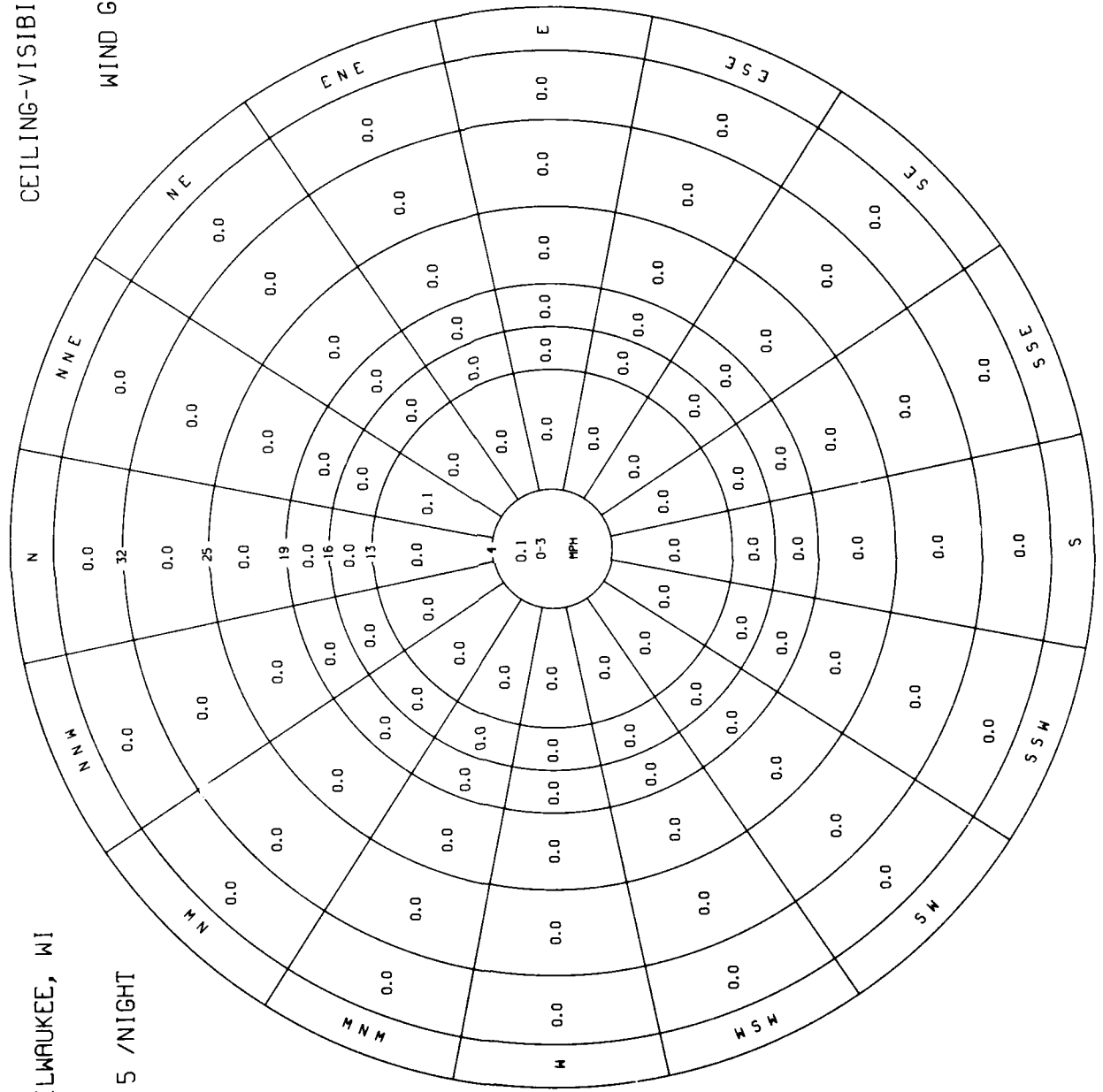
STATION NUMBER: 14839

NO. OBS.: 291

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.7	.0	5.2	.0	2.1	.0	1.7	.0	1.0	.0	1.4	.0	.3	.1 12.4
NNE	.0	2.4	.1	10.3	.0	3.1	.0	2.7	.0	1.7	.0	.3	.0	.3	.1 21.0
N	.0	.0	.0	5.2	.0	2.1	.0	.3	.0	.3	.0	.3	.0	.3	.1 8.6
ENE	.0	.3	.0	2.1	.0	.3	.0	.0	.0	.0	.0	1.0	.0	.0	.0 3.8
E	.0	.7	.0	2.7	.0	.7	.0	.0	.0	1.0	.0	.0	.0	.0	.0 5.2
ESE	.0	.0	.0	2.7	.0	2.1	.0	2.1	.0	.0	.0	.0	.0	.0	.0 6.9
SE	.0	.3	.0	7.9	.0	3.1	.0	2.1	.0	.0	.0	.3	.0	.0	.1 13.7
SSE	.0	.3	.0	2.7	.0	2.1	.0	1.4	.0	.0	.0	.0	.0	.0	.0 6.5
S	.0	.3	.0	2.7	.0	.3	.0	1.4	.0	.7	.0	.0	.0	.0	.0 5.5
SSW	.0	.0	.0	3.4	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0 3.8
SW	.0	.7	.0	1.0	.0	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0 2.4
WSW	.0	.7	.0	1.7	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.7
W	.0	.7	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.0
WNW	.0	.7	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.4
NW	.0	.7	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.1
NNW	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.3	.0	.3	.0 1.4
CALM	.0	1.7													.0 1.7
TOTAL	.1	10.7	.3	50.5	.1	16.2	.1	11.7	.0	5.2	.0	4.5	.0	1.4	.6 100

CEILING-VISIBILITY

WIND GRAPH



MKE MILWAUKEE, WI

CLASS 5 /NIGHT

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MKE MILWAUKEE, WI

PERIOD: 1948-1978

CLASS 5 / NIGHT

STATION NUMBER: 14839

NO. OBS.: 315

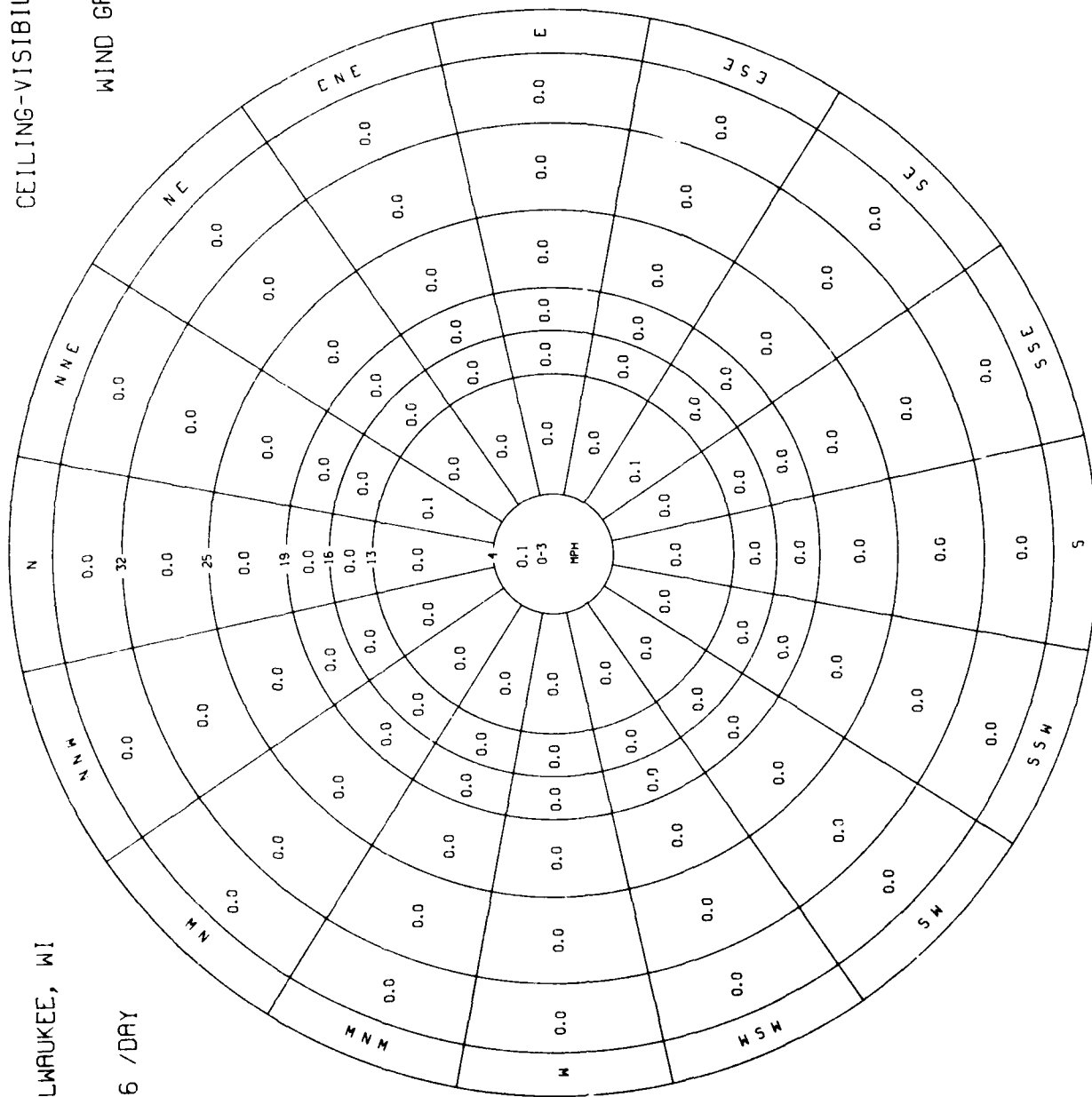
D I R	SPEED GROUPS (MPH)																		AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL				
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D			
N	.0	.6	.0	6.7	.0	.6	.0	.6	.0	.6	.0	.3	.0	.3	.1	9.8	11.0		
NNE	.0	1.3	.1	8.9	.0	1.9	.0	.6	.0	1.9	.0	.3	.0	.6	.1	15.6	11.8		
NE	.0	1.3	.0	4.8	.0	1.0	.0	.0	.0	.6	.0	.0	.0	.0	.1	7.6	8.6		
ENE	.0	.3	.0	1.9	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	2.9	8.1		
E	.0	1.6	.0	2.2	.0	1.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	5.4	8.5		
ESE	.0	1.0	.0	4.8	.0	2.2	.0	.3	.0	.0	.0	.3	.0	.0	.1	8.6	10.0		
SE	.0	1.3	.0	5.1	.0	1.9	.0	1.9	.0	.6	.0	.3	.0	.0	.1	11.1	11.6		
SSE	.0	2.2	.0	4.1	.0	1.6	.0	.0	.0	1.0	.0	.0	.0	.0	.1	8.9	9.5		
S	.0	1.3	.0	5.1	.0	.6	.0	1.3	.0	.0	.0	.0	.0	.0	.1	8.3	9.0		
SSW	.0	.3	.0	4.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	4.8	10.2		
SW	.0	.6	.0	2.9	.0	.3	.0	.0	.0	.0	.0	.0	.0	.6	.0	4.4	11.6		
WSW	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	9.0		
W	.0	.3	.0	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	6.0		
WNW	.0	.3	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	5.6		
NW	.0	.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	5.0		
NNW	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	8.4		
CALM	.0	3.8													.0	3.8			
TOTAL	.1	16.8	.4	58.1	.1	11.7	.0	5.1	.0	5.1	.0	1.3	.0	1.9	.7	100	9.6		

CEILING-VISIBILITY

WIND GRAPH

MKE MILWAUKEE, WI

CLASS 6 /DAY



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MKE MILWAUKEE, WI

PERIOD: 1948-1978

CLASS 6 / DAY

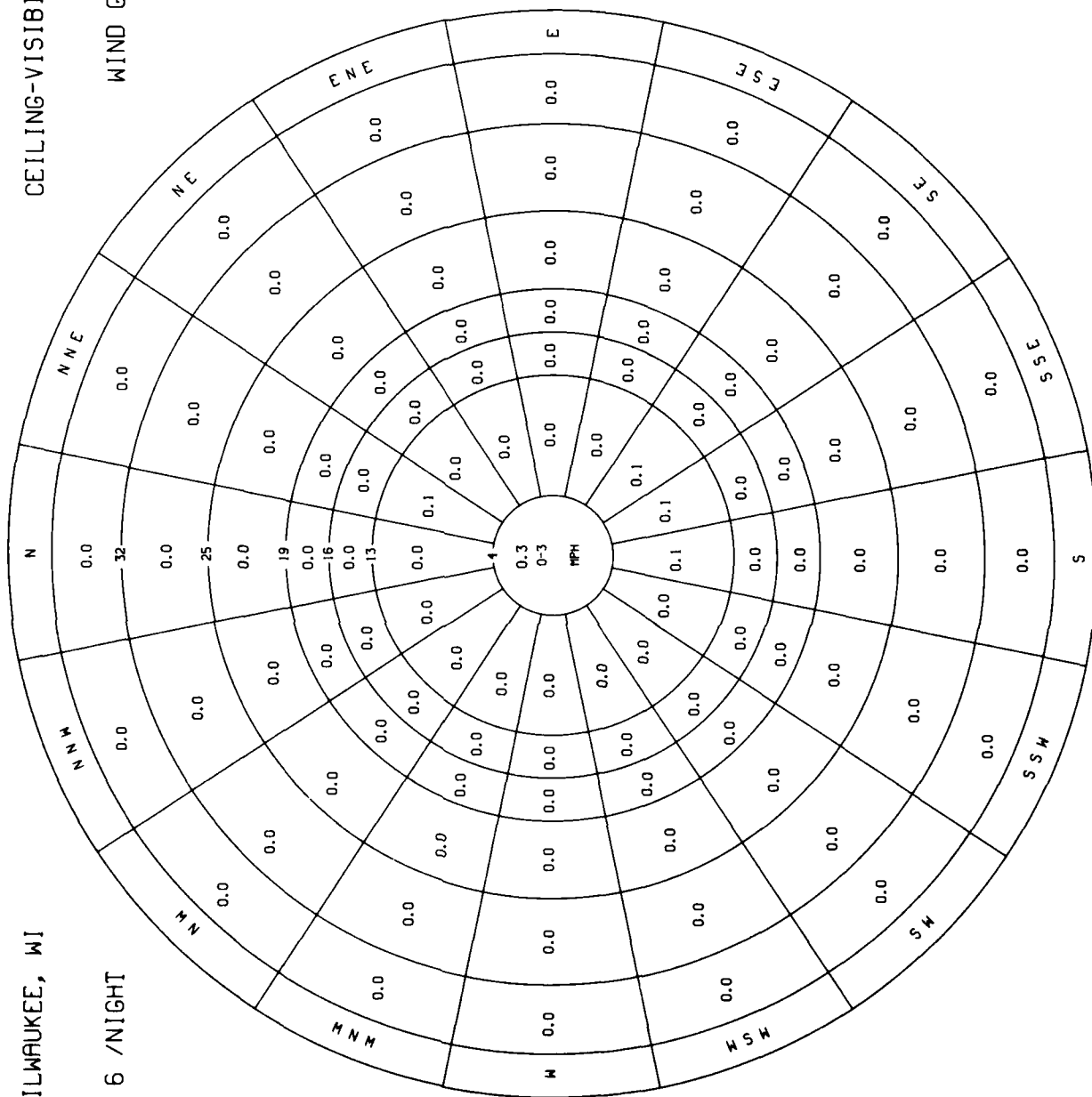
STATION NUMBER: 14839

NO. OBS.: 303

D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	.7	.0	5.0	.0	.7	.0	.7	.0	.3	.0	.0	.0	.0	.0 7.3 9.7
NNE	.0	1.0	.1	11.6	.0	3.6	.0	1.0	.0	1.0	.0	.0	.0	.0	.1 18.2 9.8
NE	.0	1.0	.0	6.9	.0	.7	.0	.0	.0	.3	.0	.3	.0	.3	.1 9.6 9.7
ENE	.0	.0	.0	1.7	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0 2.6 12.1
E	.0	.7	.0	4.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0 5.0 7.3
ESE	.0	.3	.0	4.6	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0 5.6 9.2
SE	.0	1.7	.1	9.9	.0	2.0	.0	.0	.0	.7	.0	.0	.0	.0	.1 14.2 9.1
SSE	.0	2.3	.0	7.6	.0	1.0	.0	1.0	.0	.3	.0	.0	.0	.0	.1 12.2 8.9
S	.0	1.0	.0	4.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 5.9 7.8
SSW	.0	1.7	.0	1.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0 3.3 5.0
SW	.0	.3	.0	2.6	.0	.7	.0	.0	.0	.3	.0	.0	.0	.0	.0 4.0 8.7
WSW	.0	.3	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.7 6.6
W	.0	.3	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.3 6.0
WNW	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .3 12.0
NW	.0	.3	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0 2.6 10.5
NNW	.0	.7	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.0 3.7
CALM	.0	5.3													.0 5.3
TOTAL	.1	17.5	.4	64.0	.1	10.6	.0	3.0	.0	4.0	.0	.3	.0	.7	.6 100 8.5

CEILING-VISIBILITY

WIND GRAPH



MKE MILWAUKEE, WI

CLASS 6 /NIGHT

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MKE MILWAUKEE, WI

PERIOD: 1948-1978

CLASS 6 / NIGHT

STATION NUMBER: 14839

NO. OBS.: 413

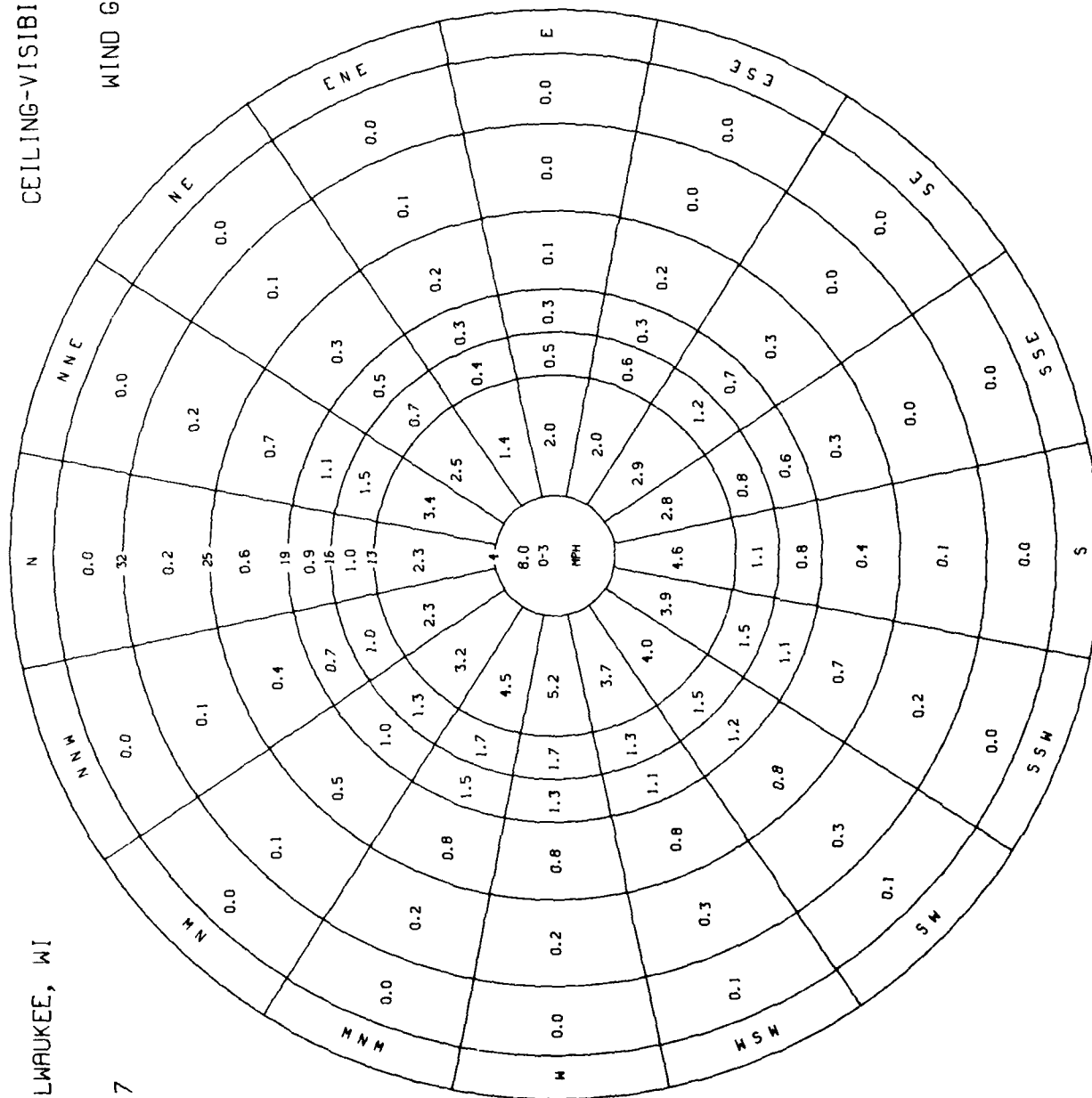
D I R	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	
N	.0	1.2	.0	4.8	.0	.5	.0	.2	.0	.2	.0	.0	.0	.0	.1 7.0
NNE	.0	1.9	.1	10.2	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.1 12.8
NE	.0	1.5	.0	3.4	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.1 5.6
ENE	.0	1.0	.0	2.9	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0 4.1
E	.0	.7	.0	3.4	.0	.2	.0	.0	.0	.5	.0	.0	.0	.0	.0 4.8
ESE	.0	.5	.0	2.9	.0	.5	.0	.2	.0	.2	.0	.0	.0	.0	.0 4.4
SE	.0	1.7	.1	7.5	.0	.7	.0	.5	.0	.5	.0	.0	.0	.0	.1 10.9
SSE	.0	3.6	.1	5.6	.0	.5	.0	.7	.0	.5	.0	.0	.0	.0	.1 10.9
S	.0	1.2	.1	7.7	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.1 9.4
SSW	.0	1.7	.0	2.7	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0 4.6
SW	.0	3.4	.0	3.9	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.1 7.5
WSW	.0	1.9	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.9
W	.0	1.5	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.2
WNW	.0	1.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.2
NW	.0	.7	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 1.9
NNW	.0	.5	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 2.2
CALM	.1	7.0													.1 7.0
TOTAL	.3	31.0	.6	60.3	.0	4.1	.0	2.4	.0	2.2	.0	.0	.0	.0	1.0 100
															6.5

CEILING-VISIBILITY

WIND GRAPH

MKE MILWAUKEE, WI

CLASS 7



**DATA
FILM**